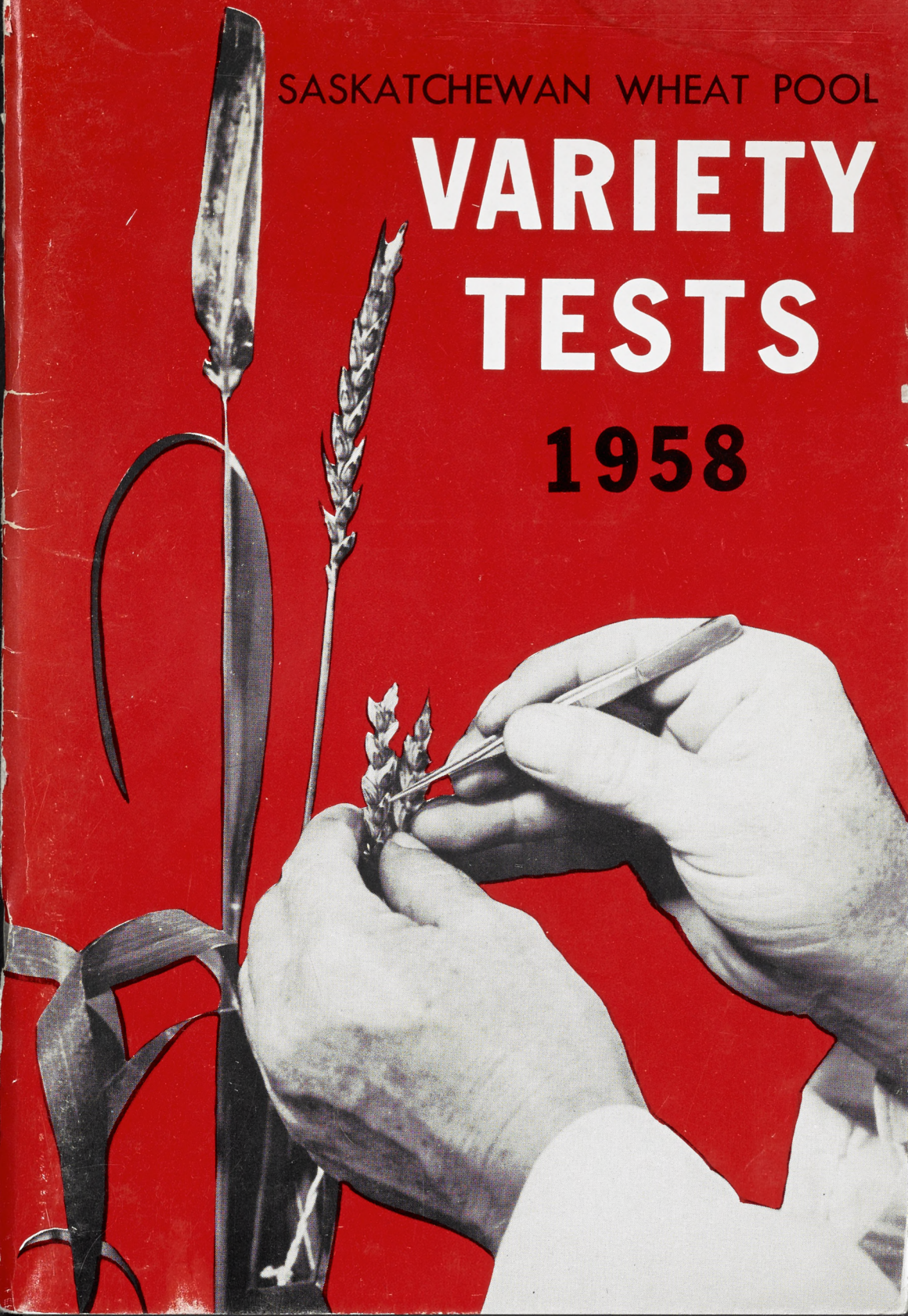


SASKATCHEWAN WHEAT POOL

VARIETY TESTS

1958



COVER PICTURE

"The Birth of a New Variety"

A plant breeder crosses two wheat plants in the first step of what may be the development of a useful new variety.

Photo by W. E. Clark, Canada Department of Agriculture, Winnipeg.

SASKATCHEWAN WHEAT POOL

Variety Tests

WHEAT, OATS, BARLEY and RAPE

1958



PUBLISHED BY
SASKATCHEWAN WHEAT POOL
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Foreword

By The President of the Saskatchewan Wheat Pool

Gradually, but inevitably, over the years the farmer has had to give more and more attention to management decisions in his farming operations. This has been particularly true during the last few years when his costs have been rising and his grain income falling. In many cases his success or failure depended on the skill with which he made these decisions.

One such decision involves the choice of the best grain varieties to be grown for a particular area. This choice involves consideration not only of yields, but of other factors such as straw strength, time of maturity, resistance to shattering, etc., all of which affect the amount of grain which can be harvested. The series of tests described in this booklet provide information on a number of grain varieties, which will assist a farmer in any particular area to make his decision. These tests conducted over a long period of years throughout the grain growing area of the province have provided a living demonstration to large numbers of producers of the importance of choosing the best varieties available.

To the young farm men and women who supervised these tests, I would like to express, on behalf of the Saskatchewan Wheat Pool, our sincere appreciation for a job well done. We hope that your experience in this type of work will be of some assistance to you in whatever field of endeavor you choose to enter.

John H. Weson

Introduction

The short history of grain production in Western Canada has witnessed a remarkable change in farming methods and in the grain varieties grown. Plant breeders have carried on a constant search for varieties which would withstand the effects of weather, insect pests or plant diseases. Successful farmers have ever been on the alert for better varieties and for improved practices. The primary purpose of the Wheat Pool's variety testing program, during the years it has been carried on, has been to compare newly developed varieties with the ones presently in use in the different areas of the province. A second purpose has been to stimulate the interest of young farm men and women in growing the best varieties available.

This booklet is a report on the tests conducted during 1958. Since most readers will be primarily interested in one area of the province or in one crop, the report has been arranged with this in mind. A detailed index has been provided showing the location of the different sections. In addition, an alphabetical index at the back of the book will assist the reader to find any individual test. For those interested in the province as a whole, yields are given in chart form on page 48 for wheat, on page 42 for oats and page 64 for barley.

The following table shows the different types of tests conducted in 1958 and the varieties included in each.

Project	No. of Tests	Varieties
Wheat.....	123	Thatcher, Selkirk, Stewart, Ramsey, Chinook, Lake (1)
Oats.....	46	Exeter, Rodney, Garry, Clintland, Fundy.
Barley.....	116	Husky, Traill, Parkland, Montcalm, Vantage, York (2)
Rape.....	32	Golden, Regina II, R-5, Arlo, Polish.
Total.....	317	

(1) Only five of the six wheat varieties were included in each test. Thatcher, Selkirk, Stewart and Ramsey were included in wheat tests throughout the province. Chinook was included only in those tests located in the south, south-west and west-central cereal variety zones. It was replaced by Lake in those tests located in the east, north-east and northern zones.

(2) Husky, Traill, Parkland and Montcalm were included in tests in all areas of the province. Vantage was used only in those tests located in the south, south-west and west-central cereal variety zones. It was replaced by York in those tests located in the east, north-east and northern zones.

ORGANIZATION OF THE TESTING PROGRAM

As in previous years the 1958 variety testing project was planned and carried out under the direction of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance during the year was provided by Dr. W. J. White, head of the Department and by Drs. E. N. Larter and D. R. Knott. The threshing, summarizing and statistical analysis were carried out at the Head Office of the Wheat Pool under the direction of A. D. McLeod.

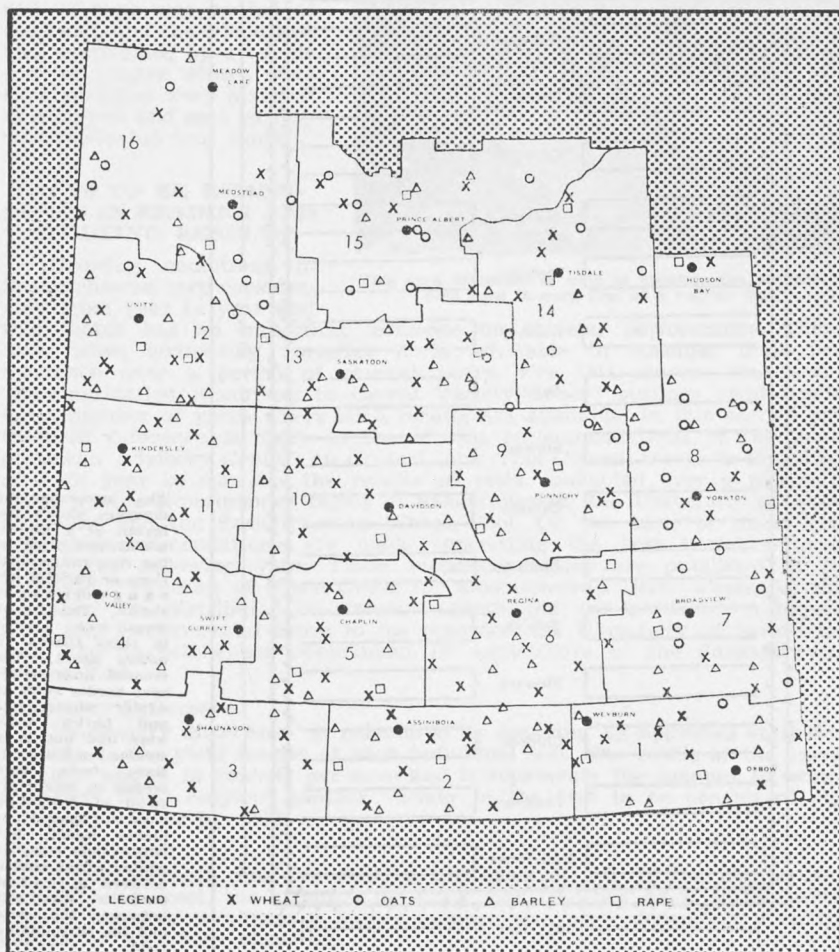
In planning the project an attempt was made to distribute the tests as uniformly as possible throughout the grain growing area of the province. The map on page 5 shows the distribution which was achieved. Each individual test was conducted by a young farm man or woman selected for the work by the Wheat Pool delegate in each sub-district. Much of the

credit for the success of this testing project is due to the interest and effort of these young people.

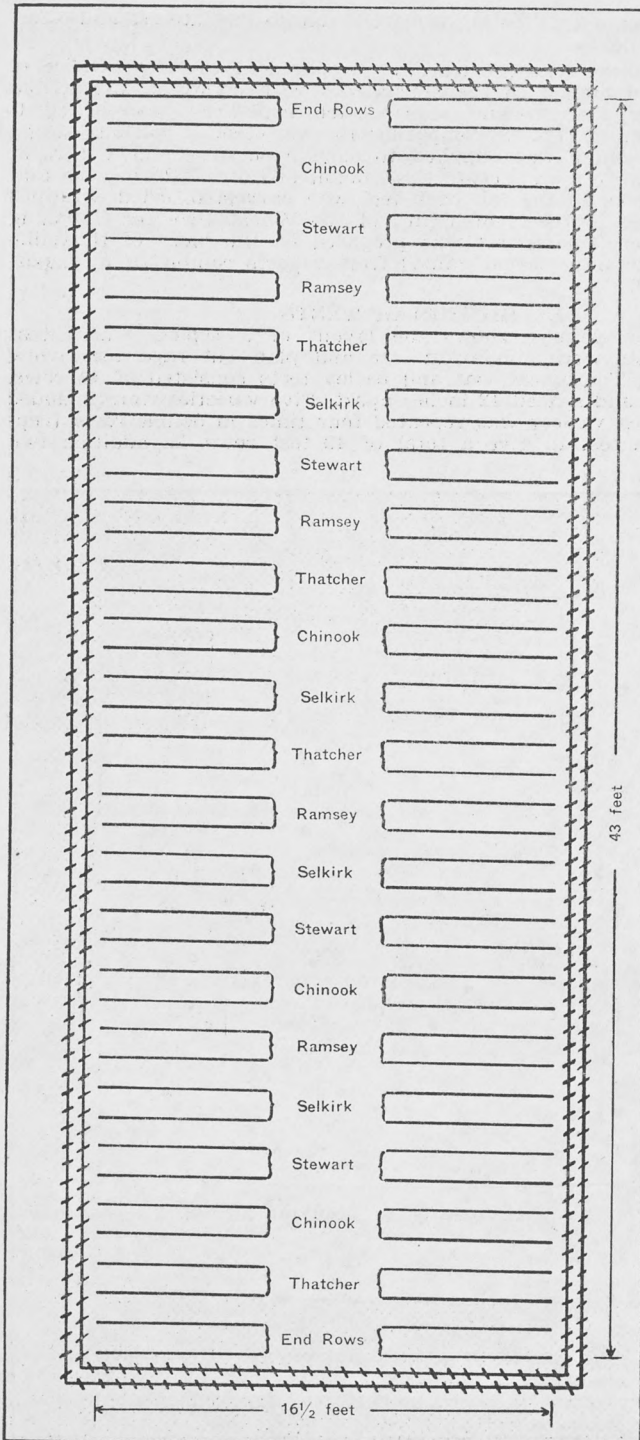
Seed and equipment for each test was prepared at the Head Office of the Wheat Pool and mailed to the supervisors with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. A rain gauge was supplied to each supervisor and a part of his duties was to measure and record the amount of rainfall during the four month growing season. In the fall each test was harvested, dried, wrapped in paper and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared on the basis of threshing results together with information gained from reports completed by supervisors and delegates.

DESCRIPTION OF TESTS

The diagram on page 6 shows the layout of a typical wheat test. Barley and oat tests were similar in size and plan but rape tests were somewhat different. The wheat, oat and barley tests consisted of 44 rows, each $16\frac{1}{2}$ feet long and spaced 12 inches apart. Five varieties were included in each test and each variety was repeated four times in double rows (replicates) within each test to give a total of 40 test rows. In addition two



PLAN OF TEST



The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of winter wheat. Oat and barley tests were laid out in a similar manner. Rape tests were seeded in single instead of double rows, spaced 21 inches apart, but with single rows of winter wheat seeded between. A two-foot pathway was left between the test and the surrounding field.

rows were seeded at each end of the test for protection purposes. The whole test was surrounded by a double row of winter wheat. When harvesting, each pair of test rows was made into a single sheaf, and the twenty sheaves were each threshed and weighed separately.

Because of the bushy nature of rape plants it was not possible to seed the rows 12 inches apart. The rape tests were therefore seeded in single rows, 16½ feet long, spaced 24 inches apart, with a single row of winter wheat between. A single protection row of rape was seeded at each end, and the whole test was surrounded by a double row of winter wheat. Five rape varieties were included in each test and each variety was replicated four times.

FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

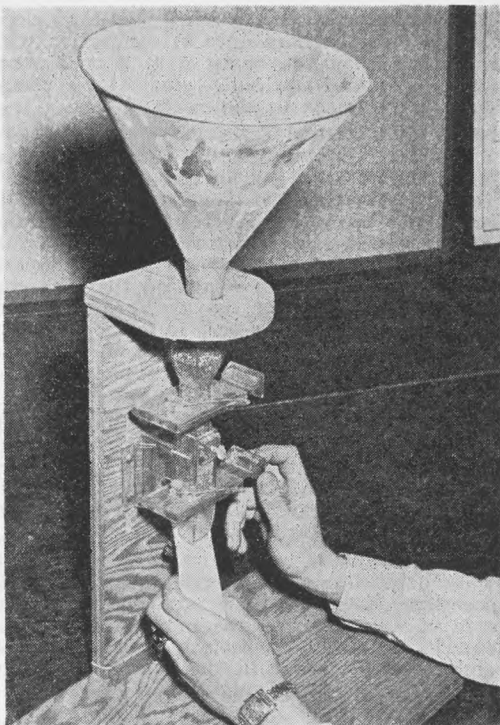
Growing conditions in Saskatchewan vary considerably from year to year and this factor has an important influence on varietal performance. Therefore, when comparing varieties it is advisable to consider their performance over a period of several years. For this reason, the section "Summarization According to Cereal Variety Zones" outlines yield results for a number of years where such results are available. In this section also frequent reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. This Council meets in December of each year to consider the results of tests conducted over a period of years by the experimental farms in Saskatchewan, the University of Saskatchewan and the Saskatchewan Wheat Pool. On the basis of these tests official recommendations are made concerning the best varieties to be grown the following year. These recommendations are published in the pamphlet "Varieties of Grain Crops for Saskatchewan 1959." Copies of this pamphlet are distributed to elevator agents and are available on request from any Experimental Farm in the province, the University of Saskatchewan, the Saskatchewan Department of Agriculture or the Saskatchewan Wheat Pool.

Necessary Difference

"Necessary difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.



This seed dispenser is used to measure the amount of seed used in each row of a variety test.

Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3 where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat No. 25; Oats No. 40; Barley No. 63; Rape No. 70. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as difference in soil type, climatic conditions and date of seeding.

Summary by Cereal Variety Zones

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 48 and 49. Each zone represents an area in which conditions influencing plant growth are generally similar. While local conditions may vary considerably within the zone, in general the average yield results can be considered to represent the performance of the varieties for that zone.

Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects:

BL.—Bleached
B.P.—Black Point
D.—Damaged
Dk.G.—Dark Green
E.—Ergot
F.—Frozen

G.—Green Kernels
I.—Immature
St.—Starchy
Sp.—Sprouted
W.—Weather Stained
(A)—Insufficient grain to determine bushel weight.

RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by cereal variety zones for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1—AVERAGE MONTHLY RAINFALL IN INCHES
DURING THE PERIOD MAY-AUGUST
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	May	June	July	August	Total
1A.....	.19	1.21	1.78	1.21	4.39
1B.....	.48	1.42	1.61	1.36	4.87
1C.....	.17	1.08	1.38	.74	3.37
1D.....	.64	1.15	1.74	.41	3.94
2A.....	.14	1.02	1.09	.43	2.68
2B.....	.29	.83	2.74	1.05	4.91
2D.....	.75	.80	2.74	.53	4.82
2E.....	.11	1.33	1.60	1.91	4.95
3A.....	.19	1.00	2.04	1.15	4.38
3B.....	.41	.77	1.89	2.35	5.42
3C.....	.21	.70	2.06	1.47	4.44
3D.....	.56	1.43	2.09	.59	4.67
3E.....	1.54	1.22	.83	.50	4.09
3F.....	.70	1.44	2.28	1.56	5.98
3G.....	.67	.83	3.57	.57	5.64
3H.....	1.80	1.11	1.71	1.85	6.47
3J.....	.69	.79	2.11	1.25	4.84
4A.....	.54	1.33	2.24	1.46	5.57
4B.....	1.46	.79	1.86	1.27	5.38

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.

WHEAT TESTS

A total of 123 wheat tests were seeded in 1958. Five varieties were included in each individual test. Thatcher, Selkirk, Stewart and Ramsey were included in tests throughout the province. Chinook was included only in those tests located in the south, south-west and west-central portion. This area includes Cereal Variety Zones 1A to 2D inclusive with the exception of Zone 2A. It was replaced by Lake in the remainder of the province, that is, in Cereal Variety Zones 2A and 2E to 4B inclusive. For the location of these zones see the map on page 48.

DESCRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" beginning on page 13.

Thatcher is included in these tests as a standard of comparison. It was developed from a cross between (Marquis X Iumillo) X (Marquis X Kanred) made in 1921 at the University of Minnesota. Thatcher is drought resistant, high yielding and high in milling and baking quality. It is resistant to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, to stem rust and to covered smut.

Selkirk was developed at the Laboratory of Cereal Breeding, Winnipeg, from crosses involving the varieties McMurchy, Exchange and Redman. It was licensed for commercial distribution in 1953. It is equal to Thatcher in maturity, straw length and straw strength. It is less resistant to shattering, but more resistant to bleaching. Selkirk is resistant to stem rust, to loose and covered smut and moderately resistant to leaf rust.

Stewart is a durum variety included in these tests for comparison with bread wheats. It was developed at the North Dakota Agricultural Experiment Station in co-operation with the United States Department of Agriculture. It was licensed in Canada in 1946. Stewart is a high quality durum variety which has long, medium strong straw and is late in maturity. It is resistant to leaf rust, but moderately susceptible to loose and covered smut, and very susceptible to stem rust.

Ramsey is a new durum variety included in these tests for comparison with the bread wheats. It was developed in North Dakota from a cross between Carleton and an unnamed variety from Palestine. Ramsey was licensed in Canada in 1957. It is equal to Stewart in maturity but has shorter, stronger straw. It is eligible for the top durum grades. Ramsey has some resistance to stem rust, leaf rust and covered smut, but is moderately susceptible to covered smut and susceptible to loose smut.

Chinook—This variety was developed by the Central Experimental Farm, Ottawa, from a cross between Thatcher and a solid stemmed wheat. It is resistant to sawfly damage and is higher in milling and baking quality than is Rescue. Compared with Thatcher, Chinook has taller, weaker straw, but is equal in maturity. Chinook has high bushel weight, is susceptible to stem and leaf rust, moderately susceptible to loose and covered smut and moderately resistant to common rootrot.

Lake—This variety was developed at the Experimental Farm at Scott from the cross Regent X Canus and was licensed for distribution in 1954. It has medium-long, strong straw and is later in maturity than Thatcher. Lake is less resistant to shattering than is Thatcher. It is resistant to covered smut, but susceptible to loose smut, to stem and leaf rust.

PERFORMANCE OF VARIETIES

The 1958 season began with unseasonably warm dry weather prior to seeding and soil drifting was experienced in some areas. Many of the tests were seeded in dry soil which caused slow or uneven germination. In the latter part of May some frost damage occurred in the east and south-central part of the province. During May and June rainfall was generally light in

nearly all areas of the province, and particularly so in the south-east and west-central areas. However, temperatures remained fairly low during this period, and this factor, as well as a good root system, enabled the crop to withstand the drought remarkably well. Several of the tests were destroyed by drought but most of those located on summerfallow were not too seriously damaged. Hail and wind damage were lighter in 1958 than in several previous years.

TABLE No. 2—AVERAGE YIELDS IN BUSHELS PER ACRE
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal** Variety Zone	No. of Satis- factory Tests	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake	Necessary Difference* in Bushels
1A.....	10	18.9	18.7	17.0	19.8	19.2	—	1.03
1B.....	3	23.3	21.6	20.3	21.7	22.1	—	N.S.
1C.....	6	12.6	13.5	10.4	11.9	13.7	—	.66
1D.....	11	16.9	17.2	16.5	16.7	17.7	—	.97
2A.....	2	15.7	14.7	15.3	15.4	—	15.0	N.S.
2B.....	5	26.8	24.0	23.2	26.1	24.3	—	1.38
2D.....	12	21.9	21.5	19.7	20.4	20.3	—	1.03
2E.....	2	22.2	22.1	18.3	26.3	—	17.2	3.01
3A.....	3	22.5	22.1	17.4	20.5	—	19.1	N.S.
3B.....	3	30.2	27.9	24.7	24.5	—	29.2	N.S.
3C.....	6	25.7	24.9	21.6	23.2	—	24.1	1.18
3D.....	4	41.2	34.9	32.7	33.5	—	39.3	2.29
3E.....	3	23.6	19.0	19.8	—	—	23.3	N.S.
3F.....	3	33.8	36.0	33.5	35.4	—	36.4	2.21
4A.....	3	35.0	37.4	32.6	36.8	—	35.2	N.S.
4B.....	4	30.6	31.1	23.0	28.6	—	31.4	1.97

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.—Yield differences not significant.

**See zone map, page 48.

Table No. 2. Zones 1A to 2D (except 2A). No consistent pattern is evident in the placing of the varieties in this area, with the exception of **Stewart** which placed fifth in all of the zones. **Thatcher** yielded well, placing first in yield in three of these zones and third in the remaining three. **Chinook** placed first in two zones, second in two, third in one and fourth in one. **Selkirk** and **Ramsey** can only be considered on an individual zone basis since their relative position varied considerably from zone to zone.

Zones 2A and 2E to 4B. In this area **Thatcher** performed well, placing first in seven of the zones and second in two others. However, in two of these zones it placed fourth. The three varieties **Lake**, **Selkirk** and **Ramsey** varied considerably in their placing and can only be compared on an individual zone basis. **Stewart** was generally outyielded by the other four varieties tested in this area. It placed fifth in seven zones and fourth in three others.

TABLE No. 3—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A.....	98.0	97.6	102.1	101.9	97.6	—
1B.....	101.5	100.5	109.5	110.0	101.0	—
1C.....	94.3	94.3	101.0	99.3	94.7	—
1D.....	95.1	94.9	99.1	98.6	95.0	—
2A.....	105.5	104.5	110.0	109.5	—	106.0
2B.....	96.6	97.2	102.8	102.8	98.0	—
2D.....	97.2	95.8	102.6	102.2	97.2	—
2E.....	93.0	93.0	102.0	102.0	—	98.5
3A.....	97.0	95.7	98.7	98.7	—	96.7
3B.....	100.3	99.7	106.3	105.0	—	101.3
3C.....	104.5	103.5	108.5	108.3	—	105.8
3D.....	101.7	100.7	104.0	103.7	—	102.0
3E.....	94.3	93.3	98.7	98.7	—	95.7
3F.....	107.0	107.0	113.3	113.3	—	106.0
4A.....	110.0	111.0	111.0	109.0	—	109.0
4B.....	106.0	103.0	118.0	117.0	—	111.0

Table No. 3. Zones 1A to 2D (except 2A). **Selkirk** ripened earlier than the other four varieties in three zones, tied for first place in two others and placed second in the remaining zone. On an average basis **Thatcher** placed second and **Chinook** third but there was little difference between them. The two durum varieties matured considerably later than the bread wheat with **Ramsey** generally slightly earlier than **Stewart**.

Zones 2A and 2E to 4B. In this area **Selkirk** placed first in seven zones and tied for first place in one additional zone. **Thatcher** tied for first place in one zone, placed second in seven zones and third in the two remaining zones. **Lake** was somewhat later than the other two bread wheats but earlier than the durums. Of the two durum varieties, **Ramsey** generally matured slightly earlier than **Stewart**.

TABLE No. 4—AVERAGE HEIGHT OF PLANTS IN INCHES
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A.....	23.3	23.5	30.1	28.1	24.2	—
1B.....	27.7	28.0	32.0	32.0	28.7	—
1C.....	18.2	17.3	19.8	20.3	18.0	—
1D.....	23.7	23.8	28.8	27.2	24.0	—
2A.....	19.0	19.0	24.5	25.5	—	18.5
2B.....	25.8	24.8	31.3	30.3	25.8	—
2D.....	26.0	24.4	29.5	27.8	25.6	—
2E.....	32.0	32.0	35.0	35.0	—	33.0
3A.....	27.8	26.5	35.8	33.0	—	29.3
3B.....	33.3	34.3	38.3	36.7	—	34.3
3C.....	26.8	26.3	30.8	30.5	—	28.5
3D.....	28.8	28.5	35.0	33.3	—	30.3
3E.....	28.3	27.7	35.0	30.0	—	29.0
3F.....	35.7	35.3	44.7	43.0	—	37.3
4A.....	31.5	31.5	32.0	33.0	—	32.5
4B.....	30.3	28.3	38.0	36.3	—	32.0

Table No. 4. Zones 1A to 2D (except 2A). **Stewart** exceeded the other varieties in height in four of the six zones. It was equal to **Ramsey** in one zone and was second tallest in the remaining zone. **Ramsey** was generally shorter than **Stewart** but taller than the three bread wheats. There were only minor differences in the height of the three remaining varieties, **Thatcher**, **Selkirk** and **Chinook**.

Zones 2A and 2E to 4B. In all but a few of these zones, **Stewart** grew taller than the other four varieties tested. In general, **Ramsey** was slightly shorter than **Stewart** but taller than the bread wheats. The slight differences in height of the remaining three varieties were not economically significant.

TABLE No. 5—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 1
(Strong) to 9 (WEAK)
SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A.....	1.4	1.4	1.7	1.7	1.5	—
1B.....	1.7	1.9	2.1	2.8	2.6	—
1C.....	1.9	1.9	3.4	2.5	1.7	—
1D.....	2.1	2.2	3.0	2.6	1.8	—
2A.....	1.5	1.5	1.5	1.8	—	1.5
2B.....	2.0	2.0	2.3	2.2	2.1	—
2D.....	2.8	2.9	3.7	3.3	2.9	—
2E.....	5.0	5.0	4.5	5.0	—	4.5
3A.....	1.8	1.5	2.4	2.2	—	1.6
3B.....	1.9	1.5	2.9	2.4	—	2.0
3C.....	2.2	1.9	3.4	3.4	—	2.0
3D.....	1.5	1.3	2.8	2.5	—	1.4
3E.....	1.9	1.6	4.7	3.0	—	1.8
3F.....	3.0	3.0	3.8	3.6	—	3.5
4A.....	2.4	2.9	5.3	4.9	—	2.4
4B.....	1.4	1.4	3.6	2.2	—	1.5

Table No. 5. Zones 1A to 2D (except 2A). There was little difference in the straw strength of the three bread wheat varieties tested in this area.

On an average basis they placed in the following order: **Thatcher**, **Selkirk**, **Chinook**. Of the two durum varieties, **Ramsey** produced somewhat stronger straw than did **Stewart**.

Zones 2A and 2E to 4B. In this area, as in the southern part of the province, the bread wheats produced straw of satisfactory strength but the durums showed more pronounced weakness in some of the zones. Of the three bread wheats, **Selkirk** showed generally stronger straw but there was little difference between **Thatcher** and **Lake**. **Ramsey** was generally somewhat stronger than **Stewart**.

**TABLE No. 6—AVERAGE WEIGHT PER MEASURED BUSHEL
SUMMARIZED BY CEREAL VARIETY ZONES**

Cereal Variety Zone	Thatcher	Selkirk	Stewart	Ramsey	Chinook	Lake
1A.....	59.8	57.5	63.2	63.5	62.4	—
1B.....	62.0	60.5	64.3	63.5	63.3	—
1C.....	58.1	56.5	62.8	62.8	62.0	—
1D.....	62.7	60.6	63.8	63.9	64.2	—
2A.....	61.8	59.8	65.0	64.0	—	60.3
2B.....	61.7	59.9	63.4	63.7	63.7	—
2D.....	63.4	62.3	64.8	64.3	64.7	—
2E.....	62.7	60.7	64.0	65.0	—	61.7
3A.....	61.8	60.0	65.0	65.2	—	61.0
3B.....	59.7	57.3	63.0	62.7	—	58.7
3C.....	62.0	60.2	63.7	63.5	—	59.8
3D.....	64.0	62.3	65.5	65.5	—	62.5
3E.....	63.3	61.7	65.0	64.3	—	62.3
3F.....	63.3	62.5	64.5	64.5	—	62.5
4A.....	62.3	61.0	64.3	64.0	—	61.3
4B.....	63.0	62.3	63.8	64.0	—	62.3

Table No. 6. Zones 1A to 2D (except 2A). In this area the two durum varieties outweighed the bread wheats, with **Ramsey** generally showing heavier bushel weight than **Stewart**. The samples of **Chinook** weighed up well and were not far below the durum varieties. **Thatcher** placed fourth and **Selkirk** placed fifth in all these zones.

Zones 2A and 2E to 4B. **Stewart** produced the highest bushel weight in five of these zones and tied for first place in two others. It placed second in the three remaining zones in the area. **Ramsey** placed second on an average basis. **Thatcher** placed third in all ten of these zones. **Lake** placed fourth or tied for fourth place in nine of the ten zones. **Selkirk** showed the lowest bushel weight on the average of the five varieties tested.



Rudolf Bull demonstrates the difference in height of the wheat varieties in his test at Meskanaw.

TABLE No. 7—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES
(Zones 1A to 2D, except 2A)

Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	No. 4 Sp. %	No. 5 %	No. 5 Sp. %
Thatcher.....	35.7	42.8	17.9	1.8	—	—	1.8
Selkirk.....	3.6	50.0	28.6	7.1	8.9	—	1.8
Stewart.....	—	—	—	—	—	—	—
Ramsey.....	—	—	—	—	—	—	—
Chinook.....	69.6	26.8	1.8	1.8	—	—	—
Variety	1 C.W. %	2 C.W. %	3 C.W. %	4 C.W. %			
Thatcher.....	—	—	—	—			
Selkirk.....	—	—	—	—			
Stewart.....	41.0	28.6	26.8	3.6			
Ramsey.....	30.4	35.7	23.2	10.7			
Chinook.....	—	—	—	—			

(Zones 2A and 2E to 4B)

Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	No. 4 Sp. %	No. 5 %	No. 5 Sp. %	No. 6 %
Thatcher.....	28.2	53.8	7.7	5.1	2.6	—	—	—
Selkirk.....	10.3	40.9	35.9	5.1	2.6	2.6	2.6	—
Stewart.....	—	—	—	—	—	—	—	—
Ramsey.....	—	—	—	—	—	—	—	—
Lake.....	2.6	56.4	25.6	5.1	5.1	2.6	—	2.6
Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex. 4 C.W. %	4 C.W. %	5 C.W. %	6 C.W. %	
Thatcher.....	—	—	—	—	—	—	—	—
Selkirk.....	—	—	—	—	—	—	—	—
Stewart.....	25.6	28.2	28.2	2.6	12.8	—	2.6	2.6
Ramsey.....	15.4	28.1	38.4	2.6	10.3	2.6	—	—
Lake.....	—	—	—	—	—	—	—	—

Table No. 7. Zones 1A to 2D (except 2A). No direct comparison of grade can be made between the durum and the bread wheat varieties because of the different basis of grading. Of the bread wheats, **Chinook** graded highest with nearly 70% of the samples falling in No. 1 Northern. **Thatcher** followed with nearly 36% in this grade and **Selkirk** graded noticeably lower with less than 4% of the samples placing in this grade. **Stewart** and **Ramsey** were fairly similar with 41% and 30% of the samples respectively falling in the top durum grade.

Zones 2A and 2E to 4B. In this area **Thatcher** graded highest of the three bread wheats with 28% of the samples falling in No. 1 Northern. **Selkirk** followed with 10% in this grade. Only 2.6% of the samples of **Lake** graded 1 Northern but it should be noted that a high percentage of samples of this variety graded 2 Northern. If the top two grades are considered, **Lake** and **Selkirk** are nearly equal. **Stewart** graded somewhat better than **Ramsey** in this area with nearly 26% of the samples grading 1 C.W. as compared with 15% for **Ramsey**.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Throughout the grain growing area of Saskatchewan there are wide differences in soil and climatic conditions which affect the performance of varieties. With these differences in mind Cereal Variety Zones have been drawn. Within each of these zones growing conditions are generally similar and varieties can be expected to give a similar response. These tests have been grouped according to Cereal Variety Zones and the following tables report the average results of all those tests located within each zone. Because there are local variations within each zone which affect individual tests, the average results of all tests in the zone can be expected to be more reliable than those of an individual test.

It is a well known fact that there are wide variations in growing conditions in Saskatchewan from year to year, and these variations have an influence on the performance of grain varieties. For this reason, reference is made in the following section to the results of tests conducted over a period of years, where this information is available.

In each zone reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. These recommendations are made on the basis of tests carried on over a period of years by the Experimental Farms, the University of Saskatchewan, and the Saskatchewan Wheat Pool.

Table No. 8—Summarized Results for Zone 1A
(10 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	18.9	18.7	17.0	19.8	19.2
Days from seeding to ripening	98.0	97.6	102.1	101.9	97.6
Height of plants in inches	23.3	23.5	30.1	28.1	24.2
Straw strength (basis 1-strong to 9-weak)	1.4	1.4	1.7	1.7	1.5
Bushel weight in pounds	59.8	57.5	63.2	63.5	62.4
Commercial grades in percentage:					
1 Nor.	23.1	—	—	—	53.8
2 Nor.	53.9	38.5	—	—	46.2
3 Nor.	15.4	23.0	—	—	—
4 Nor.	—	7.7	—	—	—
4 Sp.	—	23.1	—	—	—
5 Sp.	7.6	7.7	—	—	—
1 C.W.	—	—	53.8	38.5	—
2 C.W.	—	—	7.7	38.5	—
3 C.W.	—	—	38.5	23.0	—

* Necessary difference—1.03 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Ramsey outyielded the other four varieties tested in this zone in 1958, the first year in which it was tested in this zone by the Wheat Pool. It has performed well in other tests in this area and is officially recommended for the zone.

Chinook placed second in yield in 1958. It placed third in 1957 and fourth in 1956. Because of its resistance to sawfly damage it is officially recommended for the zone.

Thatcher placed third in this zone in 1958. It has yielded well in this zone for many years and is officially recommended.

Selkirk placed fourth in 1958 as well as in the years 1955 and 1957. Its rust resistance is not required in most of this zone and it is not recommended.

Stewart was outyielded by the other four varieties in 1958. However, it placed second in 1956 and first in 1955. It has yielded well in other tests in this zone and is officially recommended.

Table No. 9—Summarized Results for Zone 1B
(3 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	23.3	21.6	20.3	21.7	22.1
Days from seeding to ripening	101.5	100.5	109.5	110.0	101.0
Height of plants in inches	27.7	28.0	32.0	32.0	28.7
Straw strength (basis 1-strong to 9-weak)	1.7	1.9	2.1	2.8	2.6
Bushel weight in pounds	62.0	60.5	64.3	63.5	63.3
Commercial grades in percentages:					
1 Nor.	50.0	—	—	—	75.0
2 Nor.	50.0	100.0	—	—	25.0
1 C.W.	—	—	75.0	25.0	—
2 C.W.	—	—	25.0	50.0	—
3 C.W.	—	—	—	25.0	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Thatcher placed first in yield in this zone in 1958. It placed second in 1957, first in 1956 and third in 1955. It is officially recommended.

Chinook placed second in yield in 1958, first in 1957 and fourth in 1956. Its resistance to sawfly damage is an important factor in this area and it is officially recommended.

Ramsey placed third in this zone in 1958, the first year in which it was tested in this area by the Wheat Pool. It has yielded well in other tests in the zone and is officially recommended.

Selkirk placed fourth in yield in this zone in 1958. It placed fifth in 1957 and fourth in 1955 when it was previously tested by the Wheat Pool. Selkirk is not recommended for this zone.

Stewart placed fifth in yield in this zone in 1958. However, it performed better in two previous years' tests conducted by the Wheat Pool and in other tests in this zone. It is officially recommended for the zone.

In addition to the varieties mentioned above, **Rescue** is also officially recommended.

Table No. 10—Summarized Results for Zone 1C
(6 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	12.6	13.5	10.4	11.9	13.7
Days from seeding to ripening	94.3	94.3	101.0	99.3	94.7
Height of plants in inches	18.2	17.3	19.8	20.3	18.0
Straw strength (basis 1-strong to 9-weak)	1.9	1.9	3.4	2.5	1.7
Bushel weight in pounds	58.1	56.5	62.8	62.8	62.0
Commercial grades in percentages:					
1 Nor.	—	—	—	—	62.5
2 Nor.	62.5	25.0	—	—	37.5
3 Nor.	25.0	37.5	—	—	—
4 Nor.	12.5	12.5	—	—	—
4 Sp.	—	25.0	—	—	—
1 C.W.	—	—	37.5	37.5	—
2 C.W.	—	—	62.5	62.5	—

*Necessary difference—.66 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Chinook placed first in yield in this zone in 1958. It did not yield as well during two previous years tests by the Wheat Pool but its resistance to sawfly damage is a valuable feature in this area. It is officially recommended for the zone.

Selkirk placed second in yield in this zone in 1958. It placed third and fourth in 1955 and 1957 respectively. Selkirk usually does not grade as well as Thatcher and Chinook, it tends to shatter more readily, and since its rust resistance is not an important feature in this area, it is not recommended.

Thatcher placed third in this zone in 1958. It placed first in this zone in each of the two previous years and placed fourth in 1955. It has yielded well in other tests in this zone and is officially recommended.

Ramsey placed fourth in yield in 1958. It has not been tested previously in this zone by the Wheat Pool but in other tests it has yielded well and it is officially recommended.

Stewart was outyielded by the other four varieties tested in this zone in 1958. It placed first in 1955 and fifth in 1956. Stewart has yielded well in other tests in this area and it is officially recommended.

Table No. 11—Summarized Results for Zone 1D
(11 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	16.9	17.2	16.5	16.7	17.7
Days from seeding to ripening	95.1	94.9	99.1	98.6	95.0
Height of plants in inches	23.7	23.8	28.8	27.2	24.0
Straw strength (basis 1-strong to 9-weak)	2.1	2.2	3.0	2.6	1.8
Bushel weight in pounds	62.7	60.6	63.8	63.9	64.2
Commercial grades in percentages:					
1 Nor.	66.7	8.3	—	—	100.0
2 Nor.	25.0	58.4	—	—	—
3 Nor.	8.3	33.3	—	—	—
1 C.W.	—	—	50.0	50.0	—
3 C.W.	—	—	50.0	25.0	—
4 C.W.	—	—	—	25.0	—

*Necessary difference—.97 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Chinook placed first in yield in this zone in 1958. It placed fifth during each of the two previous years in which it was tested by the Wheat Pool. However, its resistance to sawfly damage is an important factor in this zone and it is officially recommended.

Selkirk placed second in yield in 1958. It placed second in 1957 and fourth in 1955. Rust resistance is not important in this zone and since Selkirk usually does not grade as well as Thatcher and Chinook and is more likely to shatter, it is not recommended for the zone.

Thatcher placed third in yield in this zone in 1958. It has yielded well in this area for many years and is officially recommended.

Ramsey placed fourth in its first year of testing in this area by the Wheat Pool. However, it has yielded well in other tests conducted in the zone and is officially recommended.

Stewart placed fifth in this zone in 1958, but it outyielded the other varieties tested in both 1955 and 1956. It has yielded well in other tests in this area and is officially recommended.

In addition to the varieties mentioned above, Lake and Rescue are both officially recommended.

Table No. 12—Summarized Results for Zone 2A
(2 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	15.7	14.7	15.3	15.4	15.0
Days from seeding to ripening	105.5	104.5	110.0	109.5	106.0
Height of plants in inches	19.0	19.0	24.5	25.5	18.5
Straw strength (basis 1-strong to 9-weak)	1.5	1.5	1.5	1.8	1.5
Bushel weight in pounds	61.8	59.8	65.0	64.0	60.3
Commercial grades in percentages:					
1 Nor.	50.0	25.0	—	—	—
2 Nor.	50.0	50.0	—	—	100.0
3 Nor.	—	25.0	—	—	—
1 C.W.	—	—	50.0	25.0	—
2 C.W.	—	—	50.0	75.0	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Thatcher outyielded the other varieties tested in this zone in 1958. It has yielded well in this zone in rust-free years but cannot be recommended because of the potential threat of rust in this area.

Ramsey placed second in this zone in 1958. It placed fourth in the previous year but since it is the only high quality rust resistant durum variety available, it is officially recommended for the zone.

Stewart placed third in yield in 1958. It placed first in yield in each of the two previous years but due to its susceptibility to rust, it is not recommended for this zone.

Lake placed fourth in yield in this zone in 1958. It has yielded reasonably well in rust-free years but due to its susceptibility to this disease, it is not officially recommended for this zone.

Selkirk placed fifth of the five varieties tested in this zone in 1958. Its performance in Wheat Pool tests during recent years has been rather variable. Because of the risk of rust in this zone it is the only bread wheat variety recommended for the zone.

Table No. 13—Summarized Results for Zone 2B
(5 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	26.8	24.0	23.2	26.1	24.3
Days from seeding to ripening	96.6	97.2	102.8	102.8	98.0
Height of plants in inches	25.8	24.8	31.3	30.3	25.8
Straw strength (basis 1-strong to 9-weak)	2.0	2.0	2.3	2.2	2.1
Bushel weight in pounds	61.7	59.9	63.4	63.7	63.7
Commercial grades in percentages:					
1 Nor.	42.8	—	—	—	71.4
2 Nor.	28.6	42.8	—	—	14.3
3 Nor.	28.6	28.6	—	—	—
4 Nor.	—	28.6	—	—	14.3
1 C.W.	—	—	28.6	14.3	—
2 C.W.	—	—	42.8	57.1	—
3 C.W.	—	—	—	14.3	—
4 C.W.	—	—	28.6	14.3	—

*Necessary difference—1.38 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Thatcher outyielded the other four varieties tested in this zone in 1958. It placed first in 1957, second in 1956 and fourth in 1955. It is officially recommended for the zone.

Ramsey placed second in yield in its first year of testing by the Wheat Pool in this area. It has performed well in other tests and is officially recommended.

Chinook placed third in yield in 1958. It placed fifth in each of the two previous years but has performed well in other tests conducted in this area and is officially recommended.

Selkirk placed fourth in this zone in 1958. It placed second in 1957 and third in 1955. Selkirk is officially recommended for this zone.

Stewart placed fifth of the varieties tested in 1958 but it placed first in both 1955 and 1956. Since the risk of rust in this zone is not particularly serious it is officially recommended in addition to Ramsey.

Cereal Variety Zone 2C

No successful wheat tests were conducted in this small zone in 1958. Rescue, Thatcher and Stewart are officially recommended for this zone.

Table No. 14—Summarized Results for Zone 2D
(12 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Chinook
Yield in bushels per acre*	21.9	21.5	19.7	20.4	20.3
Days from seeding to ripening.....	97.2	95.8	102.6	102.2	97.2
Height of plants in inches.....	26.0	24.4	29.5	27.8	25.6
Straw strength (basis 1-strong to 9-weak)	2.8	2.9	3.7	3.3	2.9
Bushel weight in pounds.....	63.4	62.3	64.8	64.3	64.7
Commercial grades in percentages: 1 Nor.....	33.3	8.3	—	—	58.3
2 Nor.....	41.7	58.3	—	—	33.3
3 Nor.....	25.0	33.4	—	—	8.4
1 C.W.....	—	—	16.7	8.3	—
2 C.W.....	—	—	50.0	33.3	—
3 C.W.....	—	—	33.3	41.7	—
4 C.W.....	—	—	—	16.7	—

*Necessary difference—1.03 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Thatcher outyielded the other four varieties tested in this zone in 1958. It placed second in 1955, first in 1956 and tied for third place in 1957. It is officially recommended for the zone.

Selkirk placed second in yield in 1958. During the previous year it tied for third place and in 1955 it placed fourth. Since Selkirk usually does not grade as well as Thatcher or Chinook and since its rust resistance is not required in this area it is not recommended.

Ramsey placed third in this zone in its first year of testing by the Wheat Pool. It has yielded well in other tests in this area and is officially recommended.

Chinook placed fourth in this zone in 1958. It placed fifth in each of the two previous years. While it is somewhat lower in yield than several other varieties, its sawfly resistance is a valuable feature in this zone and for this reason it is officially recommended.

Stewart placed fifth in yield in this zone in 1958. It placed fourth in 1956 but ranked first in 1955. It has yielded well in other tests in this area and is officially recommended.

In addition to the varieties mentioned above, Lake is also officially recommended.

Table No. 15—Summarized Results for Zone 2E
(2 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	22.2	22.1	18.3	26.3	17.2
Days from seeding to ripening.....	93.0	93.0	102.0	102.0	98.5
Height of plants in inches.....	32.0	32.0	35.0	35.0	33.0
Straw strength (basis 1-strong to 9-weak)	5.0	5.0	4.5	5.0	4.5
Bushel weight in pounds.....	62.7	60.7	64.0	65.0	61.7
Commercial grades in percentages: 1 Nor.....	33.3	—	—	—	—
2 Nor.....	66.7	66.7	—	—	100.0
3 Nor.....	—	33.3	—	—	—
1 C.W.....	—	—	33.4	33.4	—
2 C.W.....	—	—	33.3	33.3	—
3 C.W.....	—	—	33.3	33.3	—

*Necessary difference—3.01 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Ramsey outyielded the other four varieties tested in this zone in 1958. It placed third in 1957. Since it is the only rust resistant high quality durum variety available, it is officially recommended for this zone.

Thatcher placed second in yield in 1958. It placed fourth in both 1955 and 1957. Because of the risk of rust in this zone, it is not recommended.

Selkirk ranked third in 1958. It ranked fifth in 1957 and first in 1955. Selkirk is officially recommended for this zone because of its rust resistance.

Stewart placed fourth in yield in 1958. It placed first in the previous year but because of its rust susceptibility, it is not recommended for the zone.

Lake was outyielded by the other four varieties tested in 1958. This variety, like Stewart, is susceptible to rust and cannot be recommended for this zone.

Table No. 16—Summarized Results for Zone 3A
(3 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	22.5	22.1	17.4	20.5	19.1
Days from seeding to ripening	97.0	95.7	98.7	98.7	96.7
Height of plants in inches	27.8	26.5	33.8	33.0	29.3
Straw strength (basis 1-strong to 9-weak)	1.8	1.5	2.4	2.2	1.6
Bushel weight in pounds	61.8	60.0	65.0	65.2	61.0
Commercial grades in percentages:	100.0	40.0	—	—	60.0
2 Nor.	—	60.0	—	—	40.0
3 Nor.	—	—	—	—	—
1 C.W.	—	—	20.0	20.0	—
2 C.W.	—	—	60.0	40.0	—
3 C.W.	—	—	20.0	40.0	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Thatcher placed first in yield in this zone in 1957 and 1958. It placed third in each of the two previous years. Because of the rust hazard, Thatcher is not recommended for this zone.

Selkirk placed second in this zone in 1958. It ranked either first or second in each of the previous three years. It is officially recommended for the zone.

Ramsey placed third in this zone both in 1957 and 1958. It is the only rust resistant, high quality durum variety available and is officially recommended for the zone.

Lake ranked fourth in this zone in 1958. It placed fourth in 1956 and fifth in 1957. Because of its rust susceptibility, it is not recommended for this zone.

Stewart was outyielded by the other four varieties tested in this zone in 1958. As mentioned in the discussion on Zone 2E, this variety is susceptible to rust and so cannot be recommended for this zone.

Table No. 17—Summarized Results for Zone 3B
(3 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	30.2	27.9	24.7	24.5	29.2
Days from seeding to ripening	100.3	99.7	106.3	105.0	101.3
Height of plants in inches	33.3	34.3	38.3	36.7	34.3
Straw strength (basis 1-strong to 9-weak)	1.9	1.5	2.9	2.4	2.0
Bushel weight in pounds	59.7	57.3	63.0	62.7	58.7
Commercial grades in percentages:	33.3	—	—	—	—
1 Nor.	33.3	33.3	—	—	33.3
2 Nor.	—	33.3	—	—	33.3
3 Nor.	—	—	—	—	—
4 Sp.	33.4	—	—	—	33.4
5 Sp.	—	33.4	—	—	—
2 C.W.	—	—	33.3	33.3	—
3 C.W.	—	—	66.7	66.7	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Thatcher placed first in yield in this zone in 1958. It has yielded quite well in this zone under rust-free conditions during recent years, but since the

zone is in an area which is frequently subject to rust, Thatcher cannot be recommended.

Lake placed second in yield in 1958. It placed third in 1956 and fourth in 1957. Because of its rust susceptibility, it is not officially recommended for this zone.

Selkirk placed third in this zone in 1958. It ranked first in 1956 and second in 1955 and 1957. It is officially recommended for this zone.

Stewart ranked fourth in this zone in 1958. Because of its rust susceptibility, it is not recommended for the zone.

Ramsey placed fifth in this zone in both 1957 and 1958. However, because of its rust resistance, it is officially recommended for this zone.

Table No. 18—Summarized Results for Zone 3C
(6 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	25.7	24.9	21.6	23.2	24.1
Days from seeding to ripening	104.5	103.5	108.5	108.3	105.8
Height of plants in inches	26.8	26.3	30.8	30.5	28.5
Straw strength (basis 1-strong to 9-weak)	2.2	1.9	3.4	3.4	2.0
Bushel weight in pounds	62.0	60.2	63.7	63.5	59.8
Commercial grades in percentages:					
1 Nor.	16.7	—	—	—	—
2 Nor.	66.6	66.6	—	—	66.6
3 Nor.	16.7	16.7	—	—	16.7
4 Sp.	—	16.7	—	—	16.7
2 C.W.	—	—	50.0	33.3	—
3 C.W.	—	—	50.0	50.0	—
4 C.W.	—	—	—	16.7	—

*Necessary difference—1.18 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Thatcher placed first in yield in this zone in 1958. It placed either second or third in each of the three previous years. Due to its rust susceptibility, it is not officially recommended for this zone.

Selkirk placed second in this zone in 1958. It placed second in 1955, first in 1956 and third in 1957. Because of its rust resistance, it is officially recommended for the zone.

Lake ranked third in this zone in 1958. It placed fourth of the five varieties tested in each of the two previous years. Lake is not recommended for this zone.

Ramsey placed fourth in 1958 and fifth in the previous year. However, since it is the only high quality, rust resistant durum variety available, it is officially recommended for this zone.

Stewart was outyielded by the other four varieties tested in this zone in 1958. It performed better in the previous two years but due to its susceptibility to rust, it is not recommended for this zone.

Table No. 19—Summarized Results for Zone 3D
(4 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	41.2	34.9	32.7	33.5	39.3
Days from seeding to ripening	101.7	100.7	104.0	103.7	102.0
Height of plants in inches	28.8	28.5	35.0	33.3	30.3
Straw strength (basis 1-strong to 9-weak)	1.5	1.3	2.8	2.5	1.4
Bushel weight in pounds	64.0	62.3	65.5	65.5	62.5
Commercial grades in percentages:					
1 Nor.	50.0	—	—	—	25.0
2 Nor.	50.0	75.0	—	—	75.0
3 Nor.	—	25.0	—	—	—
1 C.W.	—	—	75.0	25.0	—
2 C.W.	—	—	—	25.0	—
3 C.W.	—	—	25.0	50.0	—

*Necessary difference—2.29 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Thatcher outyielded the other four varieties tested in this zone in each of the last three years. It has yielded well in this area of the province for many years and is officially recommended for the zone.

Lake placed second in this zone in 1958 and third in each of the previous two years. It has yielded well in other tests in this area and is officially recommended.

Selkirk ranked third in 1958. It placed third in 1955 and second in both 1956 and 1957. Selkirk is officially recommended for the zone.

Ramsey placed fourth in 1958 and fifth in the previous year. Because of the risk of frost in this zone, this late maturing variety is not recommended.

Stewart was outyielded by the other four varieties tested in 1958. It did not yield well in the two previous years and because of its late maturity, it is not recommended.

Table No. 20—Summarized Results for Zone 3E
(3 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	23.6	21.8	19.0	19.8	23.3
Days from seeding to ripening	94.3	93.3	98.7	98.7	95.7
Height of plants in inches	28.3	27.7	35.0	30.0	29.0
Straw strength (basis 1-strong to 9-weak)	1.9	1.6	4.7	3.0	1.8
Bushel weight in pounds	63.3	61.7	65.0	64.3	62.3
Commercial grades in percentages:					
1 Nor.	66.7	—	—	—	—
2 Nor.	33.3	100.0	—	—	100.0
1 C.W.	—	—	66.7	33.3	—
2 C.W.	—	—	33.3	33.3	—
3 C.W.	—	—	—	33.4	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Thatcher outyielded the other four varieties tested in this zone in 1958. It placed second in each of the two previous years. Thatcher is well adapted to this zone and is officially recommended.

Lake placed second in yield in this zone in 1958. It placed first in 1957 and fourth in 1956. It has performed well in other tests in this area and is officially recommended.

Selkirk placed third in this zone in 1958. It placed fourth in 1957 and first in 1956. Since Selkirk's rust resistance is not required in this zone and since it tends to be lower in grade than Thatcher, it is not recommended.

Ramsey and **Stewart** ranked fourth and fifth respectively. Neither of these varieties yielded well in this zone in the previous year's tests and because of their late maturity, they are not recommended for this zone.

Table No. 21—Summarized Results for Zone 3F
(3 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	33.8	36.0	33.5	35.4	36.4
Days from seeding to ripening	107.0	107.0	113.3	113.3	106.0
Height of plants in inches	35.7	35.3	44.7	43.0	37.3
Straw strength (basis 1-strong to 9-weak)	3.0	3.0	3.8	3.6	3.5
Bushel weight in pounds	63.3	62.5	64.5	64.5	62.5
Commercial grades in percentages:					
1 Nor.	25.0	—	—	—	—
2 Nor.	25.0	25.0	—	—	—
3 Nor.	25.0	50.0	—	—	50.0
4 Nor.	25.0	25.0	—	—	50.0
3 C.W.	—	—	25.0	50.0	—
Ex. 4 C.W.	—	—	25.0	25.0	—
4 C.W.	—	—	50.0	—	—
5 C.W.	—	—	—	25.0	—

*Necessary difference—2.21 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Lake placed first in yield in this zone in 1958. It yielded quite well in Wheat Pool tests in the two previous years, but is somewhat late maturing for this zone. It is not officially recommended for zone 3F.

Selkirk placed second in this zone in 1958. Its performance has varied somewhat in Wheat Pool tests over the past several years. In 1955 it placed third, in 1956 it placed second and in 1957 it placed fifth. It has yielded well in other tests and is officially recommended for the zone.

Ramsey placed third in this zone in each of the last two years. However, its late maturity is a serious handicap for northern areas and it is not recommended in this zone.

Thatcher placed fourth in this zone in both 1957 and 1958. However, it placed first in 1956 and second in 1955. It has yielded well in other tests in this area and is officially recommended.

Stewart was outyielded by the other four varieties tested in this zone in 1958. Like Ramsey, it is quite late maturing and is not suitable for this zone.

Cereal Variety Zone 3G

Only one successful test was located in this zone in 1958. It was conducted by Rene Lacoursiere of Highgate and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 31. Lake, Selkirk and Thatcher are officially recommended for this zone.

Cereal Variety Zone 3H

Only one successful test was located in this zone in 1958. It was conducted by Dale Madden of South Makwa and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 34. Lake, Selkirk and Thatcher are officially recommended for the zone.

Cereal Variety Zone 3J

Only one wheat test was located in this zone in 1958. It was conducted by David Goodman of Crutwell and can be found in the section "Individual Summarized Results of all Tests—Wheat" on page 33. Lake, Selkirk and Thatcher are officially recommended for the zone.

Table No. 22—Summarized Results for Zone 4A
(3 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	35.0	37.4	32.6	36.8	35.2
Days from seeding to ripening	110.0	111.0	111.0	109.0	109.0
Height of plants in inches	31.5	31.5	32.0	33.0	32.5
Straw strength (basis 1-strong to 9-weak)	2.4	2.9	5.3	4.9	2.4
Bushel weight in pounds	62.3	61.0	64.3	64.0	61.3
Commercial grades in percentages:					
1 Nor.	33.3	—	—	—	—
2 Nor.	33.3	33.3	—	—	33.3
3 Nor.	—	33.3	—	—	33.3
No. 5	—	33.4	—	—	—
No. 6	33.4	—	—	—	33.4
1 C.W.	—	—	33.3	33.3	—
4 C.W.	—	—	33.3	33.3	—
6 C.W.	—	—	33.4	33.4	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Selkirk outyielded the other four varieties tested in this zone in 1958. It yielded well in Wheat Pool tests in this zone during the three previous years. Selkirk is officially recommended for the zone.

Ramsey ranked second in this zone in 1958. However, it placed fifth of the five varieties tested in 1957. Because of its late maturity it is not recommended for the zone.

Lake placed third in yield in this zone in 1958. It placed first in 1957 and third in 1956. Lake appears well adapted to this zone and is officially recommended.

Thatcher placed fourth in yield in this zone in 1958. It yielded quite well in this zone in several previous years, placing second in 1955 and 1956 and third in 1957. Thatcher is officially recommended for the zone.

Stewart was outyielded by the other four varieties tested in 1958. It placed fifth in 1956 and fourth in 1957. Because of its late maturity it is not recommended for the zone.

Table No. 23—Summarized Results for Zone 4B
(4 successful tests)

	Thatcher	Selkirk	Stewart	Ramsey	Lake
Yield in bushels per acre*	30.6	31.1	23.0	28.6	31.4
Days from seeding to ripening	106.0	103.0	118.0	117.0	111.0
Height of plants in inches	30.3	28.3	38.0	36.3	32.0
Straw strength (basis 1-strong to 9-weak)	1.4	1.4	3.6	2.2	1.5
Bushel weight in pounds	63.0	62.3	63.8	64.0	62.3
Commercial grades in percentages:					
2 Nor.	50.0	—	—	—	—
3 Nor.	25.0	75.0	—	—	75.0
4 Nor.	25.0	25.0	—	—	—
No. 5	—	—	—	—	25.0
3 C.W.	—	—	50.0	50.0	—
4 C.W.	—	—	50.0	50.0	—

*Necessary difference—1.97 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4B

Lake outyielded the other four varieties tested in this zone in 1958. It placed second in 1956 and third in 1957. Lake appears well adapted to this zone and is officially recommended.

Selkirk placed second in this zone in 1958. It placed first in 1956 and fourth in 1957. It has yielded well in other tests in this area and is officially recommended.

Thatcher placed third in this zone in 1958. It placed third in 1956 and second in 1957. Thatcher is officially recommended for the zone.

Ramsey and **Stewart** placed fourth and fifth respectively in this zone in 1958. Because of their late maturity, neither of these varieties is recommended for the zone.



Lloyd Nelson of Simpson standing in front of his wheat test.

Table No. 24

Individual Summarized Results of All Tests—Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks," see page 8.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT G. VANSTONE, CARNDUFF										
3A.....	1	1	Thatcher.....	—	100	20	1 0	59	2 Nor.	—
			Selkirk.....	—	98	19	1 0	57	3 Nor.	—
			Stewart.....	—	101	28	1 0	64	2 C.W.	—
			Ramsey.....	—	100	27	1 0	64	3 C.W.	I.
			Lake.....	—	98	20	1 0	59	2 Nor.	I., D.
Test damaged by shattering—yields not reliable. Rainfall—May to August 3.19 inches.										

JAMES E. LORETTE, FERTILE										
3A.....	1	2	Thatcher.....	8.9	—	—	2 0	60	2 Nor.	I.
			Selkirk.....	9.7	—	—	2 0	58	3 Nor.	I.
			Stewart.....	7.7	—	—	3 0	65	2 C.W.	I.
			Ramsey.....	8.8	—	—	2 5	65	2 C.W.	I.
			Lake.....	5.5	—	—	2 0	59	3 Nor.	I.
Yield differences not significant. Rainfall—May to August 5.04 inches.										

STANLEY G. BARNARD, WILLMAR										
3A.....	1	4	Thatcher.....	12.8	94	27	1 0	63	2 Nor.	I.
			Selkirk.....	11.0	93	26	1 0	61	2 Nor.	I.
			Stewart.....	10.9	98	33	1 0	65	2 C.W.	I.
			Ramsey.....	14.0	99	30	1 0	66	2 C.W.	I.
			Lake.....	11.8	95	28	1 0	62	2 Nor.	I.
Yield differences not significant. Rainfall—May to August 3.35 inches.										

MARILYN D. RAYNARD, BENSON										
2A.....	1	5	Thatcher.....	13.3	—	—	—	60	2 Nor.	Bl.
			Selkirk.....	13.5	—	—	—	58	2 Nor.	—
			Stewart.....	14.8	—	—	—	65	1 C.W.	—
			Ramsey.....	14.5	—	—	—	64	1 C.W.	—
			Lake.....	11.9	—	—	—	59	2 Nor.	—
Yield differences not significant. Rainfall record incomplete.										

G. BRIAN KEEFE, GRIFFIN										
2A.....	1	8	Thatcher.....	14.4	110	19	1 0	64	1 Nor.	—
			Selkirk.....	10.2	110	20	1 0	61	2 Nor.	I.
			Stewart.....	13.8	112	25	1 0	65	2 C.W.	I.
			Ramsey.....	11.1	112	27	1 0	65	2 C.W.	I.
			Lake.....	13.9	110	19	1 0	63	2 Nor.	I.
Test damaged by livestock—yields not included in zone summary. Rainfall—May to August 1.74 inches.										

ALLAN D. BRIGDEN, KISBEY										
2A.....	1	9	Thatcher.....	38.1	—	—	—	60	2 Nor.	Bl.
			Selkirk.....	32.5	—	—	—	58	3 Nor.	I.
			Stewart.....	35.9	—	—	—	65	2 C.W.	I.
			Ramsey.....	39.3	—	—	—	63	2 C.W.	I.
			Lake.....	24.7	—	—	—	59	2 Nor.	—
Thatcher samples bulked—yields not included in zone summary. Rainfall record incomplete.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

2A.....	1	6	Melvin Eggum, Halbritte.
2A.....	1	7	Glen S. McLeod, Maxim.

WHEAT POOL DISTRICT 2

DONALD G. CALLADINE, RADVILLE										
2A.....	2	1	Thatcher.....	18.1	101	19	2 0	63	1 Nor.	—
			Selkirk.....	15.8	99	18	2 0	62	1 Nor.	—
			Stewart.....	15.7	108	24	2 0	65	1 C.W.	—
			Ramsey.....	16.3	107	24	2 5	64	2 C.W.	D.
			Lake.....	18.0	102	18	2 0	60	2 Nor.	I.
Yield differences not significant. Rainfall—May to August 3.68 inches.										

Wheat Pool District 2—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
KENNETH C. KIRBY, SCOUT LAKE										
1A.....	2	4	Thatcher.....	13.3	97	22	1.0	63	1 Nor.	—
			Selkirk.....	13.0	97	22	1.0	62	2 Nor.	1.
			Stewart.....	13.1	97	33	3.0	63	3 C.W.	G., I.
			Ramsey.....	13.4	99	26	1.8	64	3 C.W.	I., D.
			Chinook.....	14.2	97	23	1.0	64	1 Nor.	—
Yield differences not significant. Rainfall—May to August 3.15 inches.										
JOHNNIE O. PITULEY JR., KILLDEER										
1C.....	2	5	Thatcher.....	—	—	14	1.3	53	4 Sp.	—
			Selkirk.....	—	—	14	1.3	53	4 Sp.	—
			Stewart.....	—	—	14	2.3	(A)*	—	—
			Ramsey.....	—	—	14	1.3	(A)*	—	—
			Chinook.....	—	—	14	2.0	58	2 Nor.	—
Test damaged by drought and shattering—yields not reliable. Rainfall record incomplete. (A)*—Insufficient grain to calculate bushel weight.										
GEORGE P. BADECK, CONGRESS										
1A.....	2	7	Thatcher.....	26.1	—	—	—	60	2 Nor.	I.
			Selkirk.....	26.2	—	—	—	57	3 Nor.	—
			Stewart.....	24.8	—	—	—	64	2 C.W.	I.
			Ramsey.....	28.5	—	—	—	64	2 C.W.	I.
			Chinook.....	26.6	—	—	—	63	1 Nor.	—
Yield differences not significant. Rainfall record incomplete.										
VERNON D. FLETCHER, READLYN										
1A.....	2	8	Thatcher.....	47.7	87	34	1.3	65	2 Nor.	I.
			Selkirk.....	47.6	87	33	1.0	63	2 Nor.	I.
			Stewart.....	38.8	93	44	1.7	67	1 C.W.	—
			Ramsey.....	48.4	93	40	1.0	67	1 C.W.	—
			Chinook.....	44.4	87	36	1.3	65	2 Nor.	I.
Necessary difference—2.26 bushels. Rainfall—May to August 3.68 inches.										
RONALD D. GIENI, GLASNEVIN										
1A.....	2	9	Thatcher.....	14.3	106	24	1.3	62	1 Nor.	—
			Selkirk.....	17.3	104	26	2.0	60	2 Nor.	I.
			Stewart.....	13.8	112	32	1.5	64	1 C.W.	—
			Ramsey.....	17.8	111	29	3.3	65	1 C.W.	—
			Chinook.....	17.7	103	26	1.8	64	1 Nor.	—
Yield differences not significant. Rainfall—May to August 3.49 inches.										
ERIC V. HOLT, BENGOUGH										
1A.....	2	11	Thatcher.....	8.8	101	27	2.0	57	3 Nor.	—
			Selkirk.....	11.7	101	27	2.0	57	3 Nor.	—
			Stewart.....	12.7	108	38	1.0	64	1 C.W.	—
			Ramsey.....	14.2	108	38	1.0	65	1 C.W.	—
			Chinook.....	7.9	101	27	1.8	62	1 Nor.	—
Yield differences not significant. Rainfall—May to August 3.96 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1A.....	2	2	Leo J. Frischholz, Minton.							
2A.....	2	10	H. Lawrence (Lorne) Boldt, Trossachs.							

WHEAT POOL DISTRICT 3

HELENE MORIN, FERLAND										
1C.....	3	1	Thatcher.....	11.0	—	—	—	56	4 Nor.	—
			Selkirk.....	13.0	—	—	—	54	4 Sp.	—
			Stewart.....	6.6	—	—	—	60	2 C.W.	—
			Ramsey.....	10.1	—	—	—	60	2 C.W.	—
			Chinook.....	13.9	—	—	—	60	2 Nor.	Bl.
Necessary difference—2.45 bushels. Rainfall record incomplete.										
ELAINE T. R. GEIGER, ROSEFIELD										
1C.....	3	2	Thatcher.....	—	101	16	3.8	57	3 Nor.	—
			Selkirk.....	—	101	15	3.5	54	4 Sp.	—
			Stewart.....	—	100	21	3.3	62	2 C.W.	I.
			Ramsey.....	—	102	19	3.3	62	2 C.W.	I.
			Chinook.....	—	101	17	2.8	61	1 Nor.	—
Test damaged by cattle—yields not reliable. Rainfall—May to August 3.75 inches.										
WAYNE BURKE, CLIMAX										
1C.....	3	3	Thatcher.....	13.3	—	—	—	58	2 Nor.	—
			Selkirk.....	14.3	—	—	—	58	2 Nor.	—
			Stewart.....	12.5	—	—	—	62	1 C.W.	—
			Ramsey.....	14.0	—	—	—	62	1 C.W.	—
			Chinook.....	14.1	—	—	—	63	1 Nor.	—
Yield differences not significant. Rainfall record incomplete.										

Wheat Pool District 3—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
E. RUNIE HANSON, FRONTIER										
1C.....	3	4	Thatcher.....	8.4	—	15	2.0	60	2 Nor.	I.
			Selkirk.....	8.8	—	14	2.0	59	2 Nor.	—
			Stewart.....	6.9	—	17	4.0	63	1 C.W.	—
			Ramsey.....	7.0	—	20	3.0	63	2 C.W.	D.
			Chinook.....	9.3	—	14	1.0	63	1 Nor.	—
Yield differences not significant. Rainfall—May to August 3.17.										
JAMES P. WOLD, RAVENSCRAG										
1C.....	3	6	Thatcher.....	16.9	90	22	1.8	59	3 Nor.	I.
			Selkirk.....	17.9	90	21	1.3	57	3 Nor.	—
			Stewart.....	11.0	102	22	3.0	64	2 C.W.	I.
			Ramsey.....	12.6	95	22	1.8	63	2 C.W.	I.
			Chinook.....	17.2	91	21	1.5	63	2 Nor.	I.
Samples incomplete—yields not included in zone summary. Rainfall—May to August 3.34 inches.										
DOUGLAS W. JACOBSON, CHAMBURY										
1C.....	3	7	Thatcher.....	15.3	—	—	—	58	2 Nor.	—
			Selkirk.....	15.9	—	—	—	56	4 Nor.	—
			Stewart.....	11.1	—	—	—	63	2 C.W.	I.
			Ramsey.....	14.0	—	—	—	63	2 C.W.	I.
			Chinook.....	17.3	—	—	—	63	1 Nor.	—
Necessary difference—1.13 bushels. Rainfall record incomplete.										
ALAN L. ANDERSON, SHAUNAVON										
1C.....	3	8	Thatcher.....	13.5	—	18	2.5	59	2 Nor.	—
			Selkirk.....	13.7	—	16	2.5	57	3 Nor.	—
			Stewart.....	12.3	—	20	5.0	64	1 C.W.	—
			Ramsey.....	13.4	—	21	3.3	64	1 C.W.	—
			Chinook.....	12.1	—	17	1.8	62	1 Nor.	—
Yield differences not significant. Rainfall—May to August 3.23 inches.										
BARRY A. RAYMOND, ANEROID										
1C.....	3	10	Thatcher.....	13.8	92	24	1.0	58	2 Nor.	—
			Selkirk.....	15.0	92	24	1.0	57	3 Nor.	—
			Stewart.....	12.7	101	25	2.5	64	2 C.W.	St.
			Ramsey.....	12.8	101	26	2.0	65	1 C.W.	—
			Chinook.....	15.2	92	25	1.0	61	2 Nor.	Bl.
Necessary difference—1.40 bushels. Rainfall—May to August 5.11 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
1C.....	3	9	Leslie J. Nelson, Admiral.							

WHEAT POOL DISTRICT 4

AUDREY I. JOHNSTON, BEVERLEY										
1B.....	4	3	Thatcher.....	22.3	—	—	—	61	2 Nor.	Bl.
			Selkirk.....	20.4	—	—	—	60	2 Nor.	I.
			Stewart.....	20.4	—	—	—	65	1 C.W.	—
			Ramsey.....	23.1	—	—	—	65	1 C.W.	—
			Chinook.....	21.2	—	—	—	63	1 Nor.	—
Yield differences not significant. Rainfall—May to August 3.49 inches.										
LARRY L. ROOSEN, ANTELOPE										
1B.....	4	4	Thatcher.....	25.2	—	27	3.0	61	1 Nor.	—
			Selkirk.....	23.2	—	28	2.3	60	2 Nor.	I.
			Stewart.....	19.8	—	34	1.5	64	1 C.W.	—
			Ramsey.....	21.8	—	32	2.5	63	2 C.W.	D.
			Chinook.....	24.0	—	27	4.5	64	1 Nor.	—
Necessary difference—2.38 bushels. Rainfall—May to August 2.84 inches.										
GREG T. SORENSEN, CABRI										
1D.....	4	5	Thatcher.....	14.7	95	—	—	63	1 Nor.	—
			Selkirk.....	15.1	95	—	—	63	1 Nor.	—
			Stewart.....	15.0	103	—	—	65	1 C.W.	—
			Ramsey.....	15.6	103	—	—	66	1 C.W.	—
			Chinook.....	14.2	97	—	—	65	1 Nor.	—
Yield differences not significant. Rainfall—May to August 4.08 inches.										
DERALD W. AHNER, MAPLE CREEK										
1B.....	4	6	Thatcher.....	22.4	95	26	1.0	65	1 Nor.	—
			Selkirk.....	21.2	94	24	1.5	63	2 Nor.	I.
			Stewart.....	20.6	111	31	2.8	66	1 C.W.	—
			Ramsey.....	20.2	112	28	2.8	65	2 C.W.	D.
			Chinook.....	21.0	95	26	1.3	66	1 Nor.	—
Yield differences not significant. Rainfall—May to August 7.30 inches.										

Wheat Pool District 4—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DONALD TUCHSCHERER, HORSHAM										
1B.....	4	7	Thatcher.....	28.2	108	30	1.0	61	2 Nor.	Bl.
			Selkirk.....	29.5	107	32	2.0	59	2 Nor.	—
			Stewart.....	20.4	108	31	2.0	62	2 C.W.	Bl.
			Ramsey.....	25.6	108	36	3.0	61	3 C.W.	Bl., D.
			Chinook.....	26.3	107	33	2.0	60	2 Nor.	Bl.

Samples incomplete—yields not included in zone summary. Rainfall—May to August 5.88 inches.

ALBERT J. KOEHLER, LEMS FORD										
1D.....	4	9	Thatcher.....	19.0	95	24	3.0	62	1 Nor.	—
			Selkirk.....	18.2	98	28	3.0	61	2 Nor.	I.
			Stewart.....	17.4	98	24	2.0	65	1 C.W.	—
			Ramsey.....	15.4	96	26	1.0	66	1 C.W.	—
			Chinook.....	20.0	95	30	1.0	65	1 Nor.	—

Yield differences not significant. Rainfall—May to August 5.40 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1B.....	4	1	Dewayne W. Churchill, Piapot.							
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WHEAT POOL DISTRICT 5

JAMES E. GLASRUD, MAZENOD										
1A.....	5	1	Thatcher.....	27.7	90	24	2.0	64	1 Nor.	—
			Selkirk.....	29.0	97	22	2.0	63	2 Nor.	I.
			Stewart.....	25.9	100	29	2.3	65	1 C.W.	—
			Ramsey.....	27.3	101	26	2.0	65	2 C.W.	D.
			Chinook.....	28.9	98	22	2.3	65	1 Nor.	—

Test damaged—yields not included in zone summary. Rainfall—May to August 3.49 inches.

SHERMAN LYNSTAD, NEIDPATH										
1A.....	5	4	Thatcher.....	17.9	90	24	1.0	57	3 Nor.	—
			Selkirk.....	15.9	90	24	1.0	54	4 Sp.	—
			Stewart.....	11.5	93	35	1.5	61	3 C.W.	I.
			Ramsey.....	14.3	93	31	1.8	61	3 C.W.	I.
			Chinook.....	17.9	91	26	1.0	61	2 Nor.	Bl.

Necessary difference—1.48 bushels. Rainfall—May to August 6.35 inches.

TERRY H. SHILLINGTON, GRAYBURN										
2E.....	5	7	Thatcher.....	—	87	28	8.0	63	1 Nor.	—
			Selkirk.....	—	87	28	8.0	62	2 Nor.	I.
			Stewart.....	—	94	30	7.0	63	3 C.W.	D.
			Ramsey.....	—	94	30	8.0	64	3 C.W.	D.
			Lake.....	—	87	30	7.0	63	2 Nor.	I.

Test damaged by animals—yields not reliable. Rainfall—May to August 7.30 inches.

LYLE J. WILKINSON, MARQUIS										
2B.....	5	8	Thatcher.....	25.1	105	—	—	63	1 Nor.	—
			Selkirk.....	24.8	105	—	—	62	2 Nor.	I.
			Stewart.....	21.8	110	—	—	65	2 C.W.	I.
			Ramsey.....	26.5	112	—	—	64	2 C.W.	I.
			Chinook.....	25.0	105	—	—	64	1 Nor.	—

Yield differences not significant. Rainfall—May to August 4.59 inches.

GARTH A. POLLEY, AQUADELL										
1A.....	5	9	Thatcher.....	21.7	—	13	—	62	2 Nor.	Bl.
			Selkirk.....	19.6	—	14	—	60	2 Nor.	I.
			Stewart.....	21.4	—	13	—	64	1 C.W.	—
			Ramsey.....	23.0	—	14	—	65	1 C.W.	—
			Chinook.....	20.9	—	14	—	63	2 Nor.	Bl.

Necessary difference—1.80 bushels. Rainfall—May to August 5.96 inches.

ELDO M. SCHMIDT, ERNFOLD										
1A.....	5	10	Thatcher.....	—	—	21	—	59	2 Nor.	—
			Selkirk.....	—	—	23	—	54	4 Sp.	—
			Stewart.....	—	—	31	—	62	3 C.W.	G., I.
			Ramsey.....	—	—	30	—	64	2 C.W.	I.
			Chinook.....	—	—	21	—	61	1 Nor.	—

Unsatisfactory germination—yields not reliable. Rainfall—May to August 5.41 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1A.....	5	2	Billy Costley, Bateman.							
1A.....	5	3	Norman and Raymond Finlay, Vanguard.							
1A.....	5	5	Harold W. Boehm, Kelstern.							

WHEAT POOL DISTRICT 6

GAYLORD E. BUSS, LANG										
2E.....	6	1	Thatcher.....	17.3	—	—	—	63	2 Nor.	I.
			Selkirk.....	13.8	—	—	—	60	3 Nor.	G., I.
			Stewart.....	17.4	—	—	—	64	2 C.W.	I.
			Ramsey.....	23.1	—	—	—	65	2 C.W.	I.
			Lake.....	12.0	—	—	—	61	2 Nor.	I.

Necessary difference—3.34 bushels. Rainfall record incomplete.

Wheat Pool District 6—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONNALEEN M. MACHMER, BAYARD										
1A.....	6	4	Thatcher.....	22.1	99	28	1.0	61	2 Nor.	I.
			Selkirk.....	21.3	99	29	1.0	57	3 Nor.	—
			Stewart.....	18.5	110	29	1.0	63	1 C.W.	—
			Ramsey.....	21.6	108	27	1.0	63	1 C.W.	—
			Chinook.....	24.8	99	29	1.0	64	1 Nor.	—
Necessary difference—1.54 bushels. Rainfall—May to August 5.58 inches.										
ROSS G. RAMAGE, CRESTWYND										
1A.....	6	5	Thatcher.....	—	99	—	—	58	2 Nor.	—
			Selkirk.....	—	99	—	—	54	4 Sp.	—
			Stewart.....	—	103	—	—	63	1 C.W.	—
			Ramsey.....	—	103	—	—	61	2 C.W.	—
			Chinook.....	—	99	—	—	60	2 Nor.	Bl.
Test damaged by cattle—yields not reliable. Rainfall—May to August 5.18 inches.										
MARGARET M. SCHUETTE, PENSE										
2E.....	6	6	Thatcher.....	27.0	99	36	2.0	62	2 Nor.	I.
			Selkirk.....	30.4	99	36	2.0	60	2 Nor.	I.
			Stewart.....	19.1	110	40	2.0	65	1 C.W.	—
			Ramsey.....	29.5	110	40	2.0	66	1 C.W.	—
			Lake.....	22.3	110	36	2.0	61	2 Nor.	I.
Necessary difference—5.43 bushels. Rainfall—May to August 5.57 inches.										
RONALD M. PRIOR, INDIAN HEAD										
3C.....	6	8	Thatcher.....	21.7	124	28	—	60	2 Nor.	Bl.
			Selkirk.....	19.8	123	28	—	59	2 Nor.	—
			Stewart.....	24.8	127	37	—	64	3 C.W.	I., Bl.
			Ramsey.....	24.0	127	34	—	64	3 C.W.	I., Bl.
			Lake.....	19.7	124	30	—	60	2 Nor.	Bl.
Necessary difference—2.86 bushels. Rainfall—May to August 4.19 inches.										
GRACE L. SIMPSON, BETHUNE										
2B.....	6	10	Thatcher.....	21.0	90	26	1.3	60	1 Nor.	—
			Selkirk.....	19.9	91	25	1.0	56	4 Nor.	—
			Stewart.....	15.9	98	32	2.5	62	1 C.W.	—
			Ramsey.....	18.4	99	30	2.0	63	1 C.W.	—
			Chinook.....	19.8	91	27	1.5	64	1 Nor.	—
Necessary difference—2.77 bushels. Rainfall—May to August 5.22 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
2A.....	6	2	Dennis R. Wagner, Francis.							
2E.....	6	3	Kenneth R. Clarke, Estlin.							
2E.....	6	10	B. Lynn Busby, Tregarva.							

WHEAT POOL DISTRICT 7

WAYNE A. BRICKER, WAWOTA										
3A.....	7	3	Thatcher.....	33.9	—	28	2.0	63	2 Nor.	I.
			Selkirk.....	35.2	—	27	1.7	62	2 Nor.	I.
			Stewart.....	36.0	—	39	2.0	67	1 C.W.	—
			Ramsey.....	37.9	—	34	2.0	66	1 C.W.	—
			Lake.....	28.8	—	30	1.7	63	2 Nor.	I.
Samples incomplete—yields not included in zone summary. Rainfall—May to August 7.52 inches.										
DONALD AND ROSS CLARK, INCHKEITH										
3A.....	7	4	Thatcher.....	45.8	97	36	3.0	64	2 Nor.	I.
			Selkirk.....	45.6	96	34	2.0	62	3 Nor.	G., I.
			Stewart.....	33.7	97	43	4.8	64	3 C.W.	G., I.
			Ramsey.....	38.6	97	41	4.3	65	3 C.W.	G., I.
			Lake.....	40.0	97	39	2.3	62	3 Nor.	G., I.
Necessary difference—7.33 bushels. Rainfall—May to August 4.68 inches.										
W. DONALD MURDOCH, SPY HILL										
3B.....	7	9	Thatcher.....	42.2	99	37	1.8	61	2 Nor.	I.
			Selkirk.....	33.4	99	37	1.0	58	3 Nor.	G., I.
			Stewart.....	33.8	103	43	2.8	63	3 C.W.	G., I.
			Ramsey.....	32.4	102	41	2.8	63	3 C.W.	G., I.
			Lake.....	39.6	102	38	1.5	61	3 Nor.	G., I.
Yield differences not significant. Rainfall—May to August 5.39 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
3B.....	7	2	Shirley E. Donald, Moosomin.							
2A.....	7	5	William Holonics, Handsworth.							
2A.....	7	6	Henry J. Donauer, Kendal.							
3C.....	7	8	Marvin Kay, Whitewood.							

WHEAT POOL DISTRICT 8

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ERNEST R. DERWORIZ, WROXTON										
3B.....	8	1	Thatcher.....	30.7	103	32	2.0	63	1 Nor.	—
			Selkirk.....	30.7	103	32	2.0	62	2 Nor.	I.
			Stewart.....	26.2	117	37	3.0	64	2 C.W.	I.
			Ramsey.....	25.1	115	36	2.0	63	2 C.W.	I.
			Lake.....	29.9	104	34	2.5	61	2 Nor.	I.
Yield differences not significant. Rainfall—May to August 8.52 inches.										
JAMES J. KELLY, SALT COATS										
3B.....	8	2	Thatcher.....	17.6	99	31	—	55	4 Sp.	—
			Selkirk.....	19.5	97	34	—	52	5 Sp.	—
			Stewart.....	14.2	99	35	—	62	3 C.W.	G., I.
			Ramsey.....	16.1	98	33	—	62	3 C.W.	G., I.
			Lake.....	18.1	98	31	—	54	4 Sp.	—
Yield differences not significant. Rainfall—May to August 5.07 inches.										
WAYNE KNOLL, YORKTON										
3C.....	8	4	Thatcher.....	14.7	92	22	2.8	59	3 Nor.	I.
			Selkirk.....	16.1	91	23	2.3	55	4 Sp.	—
			Stewart.....	11.5	97	25	2.5	62	3 C.W.	G., I., E.
			Ramsey.....	14.0	98	27	2.8	62	3 C.W.	I., D., E.
			Lake.....	13.2	94	22	3.0	55	4 Sp.	—
Necessary difference—2.80 bushels. Rainfall—May to August 5.82 inches.										
OREST SYCH, ARRAN										
4A.....	8	10	Thatcher.....	18.6	110	38	4.0	63	2 Nor.	Bl.
			Selkirk.....	20.3	111	38	4.0	62	3 Nor.	I., St.
			Stewart.....	17.3	111	38	4.0	66	4 C.W.	I., St.
			Ramsey.....	24.5	109	40	4.0	66	4 C.W.	I., St.
			Lake.....	17.4	109	38	4.0	62	3 Nor.	I., St.
Necessary difference—3.42 bushels. Rainfall—May to August 6.13 inches.										
DONALD W. RURAK, ERWOOD										
3F.....	8	11	Thatcher.....	—	122	36	9.0	62	3 Nor.	I.
			Selkirk.....	—	122	36	9.0	60	3 Nor.	I.
			Stewart.....	—	122	48	9.0	65	3 C.W.	I., St.
			Ramsey.....	—	123	48	9.0	64	3 C.W.	G., I.
			Lake.....	—	122	36	9.0	61	3 Nor.	I.
Test damaged by animals—yields not reliable. Rainfall—May to August 7.06 inches.										

WHEAT POOL DISTRICT 9

RONALD TKATCH, JASMIN										
3C.....	9	1	Thatcher.....	17.8	102	31	1.0	64	1 Nor.	—
			Selkirk.....	16.7	103	25	1.0	61	2 Nor.	I.
			Stewart.....	10.4	107	33	3.0	63	3 C.W.	G., I.
			Ramsey.....	7.9	105	30	2.5	61	4 C.W.	D.
			Lake.....	17.1	105	30	1.0	61	2 Nor.	I.
Necessary difference—3.48 bushels. Rainfall—May to August 4.68 inches.										
DOUGLAS W. WOOD, CUPAR										
3C.....	9	2	Thatcher.....	38.2	102	25	2.0	64	2 Nor.	I.
			Selkirk.....	35.2	102	28	2.0	63	3 Nor.	G., I.
			Stewart.....	34.3	106	30	2.3	65	2 C.W.	I.
			Ramsey.....	40.6	106	30	4.5	66	2 C.W.	I.
			Lake.....	37.2	103	32	2.0	63	3 Nor.	G., I.
Necessary difference—2.34 bushels. Rainfall record incomplete.										
MAYNARD D. BRUCE, KELLIHER										
3C.....	9	3	Thatcher.....	21.2	100	27	3.0	62	2 Nor.	Bl.
			Selkirk.....	24.4	95	26	2.0	62	2 Nor.	I.
			Stewart.....	18.8	102	26	4.0	65	2 C.W.	Bl.
			Ramsey.....	19.2	102	26	4.0	63	3 C.W.	D.
			Lake.....	20.1	102	27	2.0	59	2 Nor.	—
Necessary difference—2.66 bushels. Rainfall—May to August 4.01 inches.										
GORDON G. GWILLIM, DUVAL										
2B.....	9	5	Thatcher.....	27.4	94	24	2.0	64	2 Nor.	I.
			Selkirk.....	24.4	94	23	2.0	63	2 Nor.	I.
			Stewart.....	20.7	98	27	1.8	64	2 C.W.	I.
			Ramsey.....	21.1	99	28	2.0	65	2 C.W.	B.P.
			Chinook.....	21.4	95	25	2.0	65	1 Nor.	—
Necessary difference—3.84 bushels. Rainfall—May to August 5.02 inches.										
HARVEY A. ROCKEL, LANIGAN										
2B.....	9	6	Thatcher.....	25.3	104	32	1.8	59	3 Nor.	G., I.
			Selkirk.....	24.6	106	32	1.0	57	4 Nor.	G., I.
			Stewart.....	13.3	111	36	2.0	60	4 C.W.	I., D.
			Ramsey.....	23.3	109	37	2.8	64	3 C.W.	I., D., E.
			Chinook.....	19.3	109	32	1.8	62	2 Nor.	I.
Test damaged by hail—yields not included in zone summary. Rainfall—May to August 4.16 inches.										

Wheat Pool District 9—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RONNIE DE YONG, PUNNICHY										
3C.....	9	7	Thatcher.....	40.6	107	28	2.0	63	2 Nor.	I.
			Selkirk.....	37.4	107	28	2.0	61	2 Nor.	I.
			Stewart.....	29.8	112	34	5.0	63	2 C.W.	I.
			Ramsey.....	33.7	112	36	3.0	65	2 C.W.	I.
			Lake.....	37.3	107	30	2.0	61	2 Nor.	I.
Necessary difference—4.32 bushels. Rainfall—May to August 5.22 inches.										
EDITH M. JOHNSTON, KANDAHAR										
2B.....	9	8	Thatcher.....	27.1	90	25	2.8	63	1 Nor.	—
			Selkirk.....	22.7	90	25	3.3	61	2 Nor.	I.
			Stewart.....	26.8	97	37	2.5	66	1 C.W.	—
			Ramsey.....	31.5	95	36	2.0	65	2 C.W.	I.
			Chinook.....	24.6	90	25	3.0	65	1 Nor.	—
Necessary difference—2.39 bushels. Rainfall—May to August 4.84 inches.										

WHEAT POOL DISTRICT 10

J. ERNEST SPENCER, CRAIK										
2B.....	10	1	Thatcher.....	—	—	18	2.0	63	2 Nor.	I.
			Selkirk.....	—	—	17	2.8	61	3 Nor.	G., I.
			Stewart.....	—	—	25	2.8	62	2 C.W.	I.
			Ramsey.....	—	—	21	2.3	62	2 C.W.	I., E.
			Chinook.....	—	—	19	2.0	64	1 Nor.	—
Test damaged by birds—yields not reliable. Rainfall record incomplete.										
JACK D. PATON, LAWSON										
1A.....	10	2	Thatcher.....	13.3	—	—	—	58	2 Nor.	—
			Selkirk.....	10.9	—	—	—	56	4 Nor.	—
			Stewart.....	12.6	—	—	—	62	3 C.W.	G.
			Ramsey.....	12.4	—	—	—	61	2 C.W.	D.
			Chinook.....	12.3	—	—	—	60	2 Nor.	Bl.
Yield differences not significant. Rainfall—May to August 4.25 inches.										
BRUCE W. RUSSELL, LUCKY LAKE										
1A.....	10	3	Thatcher.....	4.1	103	16	—	52	5 Sp.	—
			Selkirk.....	3.3	104	15	—	51	5 Sp.	—
			Stewart.....	2.6	103	17	—	60	3 C.W.	Bl.
			Ramsey.....	4.1	101	20	—	60	3 C.W.	Bl.
			Chinook.....	4.9	103	18	—	59	2 Nor.	—
Necessary difference—1.34 bushels. Rainfall record incomplete.										
DONALD A. BENSON, OUTLOOK										
2D.....	10	5	Thatcher.....	22.0	—	31	2.5	62	1 Nor.	—
			Selkirk.....	22.3	—	33	2.8	60	2 Nor.	I.
			Stewart.....	15.8	—	39	2.5	66	1 C.W.	—
			Ramsey.....	27.2	—	37	2.3	65	1 C.W.	—
			Chinook.....	24.8	—	33	2.8	64	1 Nor.	—
Necessary difference—6.97 bushels. Rainfall—May to August 4.41 inches.										
RONALD G. STORBO, HAWARDEN										
2D.....	10	6	Thatcher.....	31.4	109	31	1.5	62	2 Nor.	I.
			Selkirk.....	31.9	105	27	1.0	64	2 Nor.	I.
			Stewart.....	36.7	114	40	3.0	67	3 C.W.	St.
			Ramsey.....	36.8	114	36	2.0	67	3 C.W.	St., D.
			Chinook.....	28.4	105	28	3.3	66	1 Nor.	—
Necessary difference—4.68 bushels. Rainfall—May to August 6.41 inches.										
LLOYD G. NELSON, SIMPSON										
2D.....	10	8	Thatcher.....	17.7	—	36	8.3	63	1 Nor.	—
			Selkirk.....	19.7	—	34	8.3	62	2 Nor.	I.
			Stewart.....	19.1	—	35	7.8	65	1 C.W.	—
			Ramsey.....	21.6	—	36	7.5	65	2 C.W.	B.P.
			Chinook.....	15.4	—	36	8.3	63	1 Nor.	—
Yield differences not significant. Rainfall—May to August 2.60 inches.										
ROBERT J. HAIGHT, HANLEY										
2D.....	10	9	Thatcher.....	35.6	—	27	1.0	64	3 Nor.	G.
			Selkirk.....	30.1	—	24	1.0	62	3 Nor.	G.
			Stewart.....	30.3	—	31	2.0	65	2 C.W.	I.
			Ramsey.....	35.5	—	29	1.8	66	2 C.W.	B.P.
			Chinook.....	27.9	—	28	1.0	65	2 Nor.	G.
Necessary difference—4.39 bushels. Rainfall—May to August 5.13 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought and other causes.										
2D.....	10	7	Frida M. Johnson, Davidson.							
2D.....	10	10	Edward G. Clark, Delisle.							

WHEAT POOL DISTRICT 11

Cereal Variety Zone	Sub- Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
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AUDREY H. WALLACE, TYNER

1D.....	11	1	Thatcher.....	4.1	—	—	—	63	1 Nor.	—
			Selkirk.....	4.3	—	—	—	59	3 Nor.	I.
			Stewart.....	4.0	—	—	—	63	3 C.W.	I.
			Ramsey.....	3.7	—	—	—	64	3 C.W.	I.
			Chinook.....	4.4	—	—	—	64	1 Nor.	—

Yield differences not significant. Rainfall—May to August 3.47 inches.

DUANE R. MARTINSON, BICKLEIGH

1D.....	11	2	Thatcher.....	25.3	91	25	3.0	62	1 Nor.	—
			Selkirk.....	24.9	91	25	3.0	59	2 Nor.	—
			Stewart.....	31.4	101	30	6.0	64	1 C.W.	—
			Ramsey.....	38.0	101	30	6.0	65	1 C.W.	—
			Chinook.....	30.9	91	27	3.3	63	1 Nor.	—

Necessary difference—7.20 bushels. Rainfall—May to August 2.90 inches.

REINHARDT A. SEIB, GLIDDEN

1D.....	11	3	Thatcher.....	9.9	97	14	1.5	62	2 Nor.	Bl.
			Selkirk.....	10.6	94	15	1.8	58	2 Nor.	—
			Stewart.....	5.6	94	15	1.8	61	3 C.W.	I.
			Ramsey.....	2.8	97	16	1.5	60	3 C.W.	I.
			Chinook.....	11.7	96	14	1.8	64	1 Nor.	—

Necessary difference—2.02 bushels. Rainfall—May to August 4.22 inches.

GORDON D. SPECHT, LA PORTE

1D.....	11	4	Thatcher.....	28.3	97	—	—	64	1 Nor.	—
			Selkirk.....	26.0	95	—	—	63	2 Nor.	I.
			Stewart.....	25.2	93	—	—	63	3 C.W.	G., I.
			Ramsey.....	30.0	94	—	—	64	4 C.W.	D.
			Chinook.....	27.0	95	—	—	65	1 Nor.	—

Samples bulked—yields not included in zone summary. Rainfall—May to August 2.93 inches.

RONALD J. SMITH, KINDERLSEY

1D.....	11	6	Thatcher.....	19.8	—	—	—	64	1 Nor.	—
			Selkirk.....	21.0	—	—	—	63	2 Nor.	I.
			Stewart.....	22.2	—	—	—	65	1 C.W.	—
			Ramsey.....	23.6	—	—	—	66	1 C.W.	—
			Chinook.....	19.4	—	—	—	64	1 Nor.	—

Necessary difference—2.02 bushels. Rainfall—May to August 4.36 inches.

BERNARD AND BARRY McAMMOND, HERSCHEL

1D.....	11	8	Thatcher.....	14.5	—	—	—	60	2 Nor.	Bl.
			Selkirk.....	14.4	—	—	—	57	3 Nor.	—
			Stewart.....	15.0	—	—	—	65	3 C.W.	Bl., St.
			Ramsey.....	15.8	—	—	—	65	3 C.W.	Bl., St.
			Chinook.....	15.9	—	—	—	62	1 Nor.	—

Yield differences not significant. Rainfall—May to August 4.16 inches.

VANCE MATHISON, PLENTY

1D.....	11	9	Thatcher.....	20.6	—	26	—	63	1 Nor.	—
			Selkirk.....	21.3	—	25	—	61	2 Nor.	I.
			Stewart.....	18.8	—	27	—	65	1 C.W.	—
			Ramsey.....	22.7	—	23	—	66	1 C.W.	—
			Chinook.....	20.5	—	23	—	66	1 Nor.	—

Necessary difference—1.35 bushels. Rainfall—May to August 3.23 inches.

JAMES R. BENOIT, COURT

1D.....	11	10	Thatcher.....	21.2	108	25	1.5	63	3 Nor.	F.
			Selkirk.....	22.2	108	25	1.3	62	3 Nor.	F.
			Stewart.....	19.1	114	45	2.3	63	3 C.W.	D.
			Ramsey.....	16.9	110	38	2.3	62	4 C.W.	D.
			Chinook.....	22.1	108	25	1.0	64	1 Nor.	—

Yield differences not significant. Rainfall—May to August 4.65 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

1D..... 11 7 William A. R. Barker, Rosetown.

WHEAT POOL DISTRICT 12

HECTOR A. MILLER, SPRINGWATER

2D.....	12	1	Thatcher.....	19.7	95	18	1.0	66	1 Nor.	—
			Selkirk.....	19.0	97	15	1.0	64	2 Nor.	I.
			Stewart.....	11.7	99	25	2.0	64	2 C.W.	D.
			Ramsey.....	11.0	102	22	2.0	64	4 C.W.	D.
			Chinook.....	18.4	98	17	1.0	66	1 Nor.	—

Necessary difference—1.76 bushels. Rainfall—May to August 2.93 inches.

Wheat Pool District 12—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GENEVIEVE R. BURGART, TRAYNOR									
2D.....	12	2	Thatcher.....	18.7	—	25	1.5	64	2 Nor. I.
			Selkirk.....	15.9	—	22	2.5	63	2 Nor. I.
			Stewart.....	15.7	—	31	2.0	65	2 C.W. I.
			Ramsey.....	13.9	—	28	1.3	64	3 C.W. I., D.
			Chinook.....	15.9	—	26	1.5	65	2 Nor. I.
Necessary difference—2.63 bushels. Rainfall—May to August 7.11 inches.									
CLAYTON H. KENNEDY, LUSELAND									
2D.....	12	4	Thatcher.....	13.3	95	21	—	65	1 Nor. —
			Selkirk.....	15.3	96	20	—	65	1 Nor. —
			Stewart.....	10.1	109	17	—	65	2 C.W. I.
			Ramsey.....	7.7	110	16	—	63	3 C.W. D.
			Chinook.....	14.2	97	19	—	66	1 Nor. —
Necessary difference—2.10 bushels. Rainfall—May to August 5.01 inches.									
LAWRENCE L. MEIER, SALVADOR									
2D.....	12	5	Thatcher.....	16.5	85	26	1.3	64	2 Nor. I.
			Selkirk.....	19.2	84	24	1.0	62	2 Nor. I.
			Stewart.....	10.6	86	26	1.8	63	2 C.W. I.
			Ramsey.....	9.7	86	24	2.0	63	2 C.W. I.
			Chinook.....	17.9	84	24	1.0	65	1 Nor. —
Necessary difference—2.19 bushels. Rainfall—May to August 6.24 inches.									
ALECK W. TRYHUBA, CACTUS LAKE									
1D.....	12	6	Thatcher.....	17.6	83	—	2.0	62	2 Nor. D.
			Selkirk.....	15.3	83	—	2.8	59	3 Nor. D.
			Stewart.....	11.0	91	—	3.0	61	3 C.W. I.
			Ramsey.....	6.6	89	—	3.0	58	4 C.W. D.
			Chinook.....	15.9	83	—	2.0	63	1 Nor. —
Necessary difference—2.53 bushels. Rainfall—May to August 6.72 inches.									
HOLLY McCracken, RUTLAND									
2D.....	12	7	Thatcher.....	17.6	—	27	5.0	61	2 Nor. Bl.
			Selkirk.....	17.7	—	25	5.8	61	2 Nor. Bl.
			Stewart.....	18.0	—	27	5.0	64	3 C.W. St., Bl.
			Ramsey.....	17.9	—	27	5.3	63	3 C.W. D.
			Chinook.....	18.3	—	26	4.3	62	2 Nor. Bl.
Yield differences not significant. Rainfall—May to August 5.05 inches.									
DOUGLAS W. BULLERWELL, CUT KNIFE									
3E.....	12	9	Thatcher.....	18.7	97	26	3.3	63	2 Nor. Bl.
			Selkirk.....	18.0	97	27	2.5	61	2 Nor. I.
			Stewart.....	14.6	98	32	6.8	65	1 C.W. —
			Ramsey.....	13.5	98	27	4.3	65	1 C.W. —
			Lake.....	18.9	96	27	3.5	62	2 Nor. I.
Necessary difference—2.42 bushels. Rainfall—May to August 4.25 inches.									
RENE L. LACOURSIERE, HIGHGATE									
3G.....	12	10	Thatcher.....	22.7	100	34	1.0	63	2 Nor. I.
			Selkirk.....	15.1	101	30	1.0	61	2 Nor. I.
			Stewart.....	18.1	101	41	2.0	63	3 C.W. I., D.
			Ramsey.....	25.1	103	39	2.0	64	4 C.W. D.
			Lake.....	21.1	101	35	2.0	61	2 Nor. I.
Necessary difference—4.56 bushels. Rainfall—May to August 4.97 inches.									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
2D.....	12	3	Joyce S. Jensen, Wilkie.						

WHEAT POOL DISTRICT 13

LYLE W. JOHNSON, YOUNG									
1D.....	13	2	Thatcher.....	19.2	—	28	1.7	64	1 Nor. —
			Selkirk.....	21.8	—	25	1.3	62	2 Nor. I.
			Stewart.....	22.1	—	32	2.7	66	1 C.W. —
			Ramsey.....	22.2	—	30	1.7	65	1 C.W. —
			Chinook.....	19.2	—	25	1.7	65	1 Nor. —
Yield differences not significant. Rainfall—May to August 4.57 inches.									
GARRY B. FREDRICKSON, DUNDUND									
2D.....	13	3	Thatcher.....	25.1	—	15	5.0	64	3 Nor. F.
			Selkirk.....	19.6	—	15	5.0	63	3 Nor. F.
			Stewart.....	25.4	—	20	7.5	66	3 C.W. D., G.
			Ramsey.....	22.6	—	20	7.0	64	4 C.W. D., G., E.
			Chinook.....	19.0	—	15	5.0	64	3 Nor. F.
Necessary difference—3.12 bushels. Rainfall—May to August 6.37 inches.									

Wheat Pool District 13—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ANN M. PEZDERIC, GRANDORA									
2D.....	13	6	Thatcher.....	22.7	102	—	64	3 Nor.	Dk. G.
			Selkirk.....	24.4	97	—	63	3 Nor.	Dk. G.
			Stewart.....	21.1	105	—	64	3 C.W.	Dk. G.
			Ramsey.....	18.3	99	—	63	3 C.W.	Dk. G.
			Chinook.....	21.7	102	—	65	2 Nor.	I.
Yield differences not significant. Rainfall—May to August 3.81 inches.									
GARY R. DENNIS, PERDUE									
2D.....	13	7	Thatcher.....	22.5	—	29	1.0	62	2 Nor.
			Selkirk.....	22.8	—	29	1.0	59	3 Nor.
			Stewart.....	21.9	—	34	3.0	64	2 C.W.
			Ramsey.....	22.5	—	31	2.0	65	2 C.W.
			Chinook.....	21.3	—	30	1.0	65	1 Nor.
Yield differences not significant. Rainfall—May to August 4.00 inches.									
GERALD KISH, BREMEN									
2B.....	13	9	Thatcher.....	33.3	—	30	—	60	3 Nor.
			Selkirk.....	28.0	—	27	—	59	3 Nor.
			Stewart.....	31.0	—	31	—	65	4 C.W.
			Ramsey.....	33.1	—	30	—	63	4 C.W.
			Chinook.....	30.5	—	27	—	62	4 Nor.
Yield differences not significant. Rainfall—May to August 6.39 inches.									
ORVILLE THEISEN, PILGER									
3D.....	13	10	Thatcher.....	50.3	104	16	1.0	65	1 Nor.
			Selkirk.....	38.4	106	17	1.0	64	2 Nor.
			Stewart.....	47.1	108	20	1.0	67	1 C.W.
			Ramsey.....	53.7	107	19	1.0	67	1 C.W.
			Lake.....	47.4	105	18	1.0	64	1 Nor.
Necessary difference—5.59 bushels. Rainfall—May to August 5.69 inches.									
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.									
2B.....	13	4	Wesley Kolosky, Meacham.						
2B.....	13	8	Guy Lafreniere, Prud'homme.						

WHEAT POOL DISTRICT 14

ROY D. NOVAK, KUROIKI									
4A.....	14	1	Thatcher.....	23.1	—	25	1.3	64	1 Nor.
			Selkirk.....	23.5	—	25	1.0	62	2 Nor.
			Stewart.....	22.4	—	26	3.0	66	1 C.W.
			Ramsey.....	23.3	—	26	1.8	65	1 C.W.
			Lake.....	26.1	—	27	1.3	62	2 Nor.
Yield differences not significant. Rainfall—May to August 3.80 inches.									
JOHN WIEBENSOHN, CLAIR									
3D.....	14	2	Thatcher.....	35.1	—	34	—	62	2 Nor.
			Selkirk.....	26.1	—	35	—	59	2 Nor.
			Stewart.....	24.3	—	44	—	66	3 C.W.
			Ramsey.....	21.5	—	41	—	64	3 C.W.
			Lake.....	29.7	—	38	—	59	2 Nor.
Necessary difference—6.79 bushels. Rainfall—May to August 4.86 inches.									
FAY LOUGHEED, NOBLEVILLE									
4A.....	14	5	Thatcher.....	63.4	—	—	2.0	60	No. 6
			Selkirk.....	68.4	—	—	3.8	59	No. 5
			Stewart.....	58.2	—	—	9.0	61	6 C.W.
			Ramsey.....	62.7	—	—	9.0	61	6 C.W.
			Lake.....	62.1	—	—	2.0	60	No. 6
Yield differences not significant. Rainfall—May to August 6.43 inches.									
MICHAEL H. STASIUK, RESOURCE									
3F.....	14	8	Thatcher.....	40.0	—	33	1.0	64	1 Nor.
			Selkirk.....	36.0	—	31	1.0	63	2 Nor.
			Stewart.....	30.9	—	40	1.0	64	4 C.W.
			Ramsey.....	32.4	—	37	1.5	63	5 C.W.
			Lake.....	39.3	—	35	1.0	64	3 Nor.
Necessary difference—2.94 bushels. Rainfall—May to August 3.74 inches									
ARCHIE W. CHILDS, BROOKSBY									
3D.....	14	9	Thatcher.....	44.1	102	31	1.5	64	2 Nor.
			Selkirk.....	38.6	101	30	1.0	62	3 Nor.
			Stewart.....	35.6	103	34	3.5	65	1 C.W.
			Ramsey.....	32.8	103	33	3.5	65	2 C.W.
			Lake.....	44.3	102	31	1.3	63	2 Nor.
Necessary difference—3.54 bushels. Rainfall—May to August 4.81 inches.									

Wheat Pool District 14—Continued

Cereal Variety Zone	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
CAROL A. WALECKE, RIDGEDALE									
3F.....	14	10	Thatcher.....	21.1	97	—	1.0	64	2 Nor. I.
			Selkirk.....	24.4	97	—	1.0	63	3 Nor. G., I.
			Stewart.....	23.5	110	—	2.0	67	Ex. 4 C.W. G., St.
			Ramsey.....	24.3	110	—	2.0	67	3 C.W. I.
			Lake.....	25.2	94	—	2.0	63	4 Nor. D., G., I.

Yield differences not significant. Rainfall—May to August 4.44 inches.

DALE A. POCKOCK, NIPAWIN									
3F.....	14	11	Thatcher.....	40.4	102	38	1.0	63	4 Nor. D., G., I.
			Selkirk.....	47.5	102	39	1.0	64	4 Nor. St., G., I.
			Stewart.....	46.0	108	46	3.0	62	4 C.W. I., St.
			Ramsey.....	49.5	107	44	2.0	64	Ex. 4 C.W. G., I.
			Lake.....	44.8	102	41	1.8	62	4 Nor. St., G., I.

Necessary difference—4.67 bushels. Rainfall—May to August 6.67 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3F..... 14 6 Lorraine Marshall, Carragana.

WHEAT POOL DISTRICT 15

RUDOLPH J. BULL, MESKANAW									
3D.....	15	1	Thatcher.....	35.1	99	34	2.0	65	1 Nor. —
			Selkirk.....	36.3	95	32	2.0	64	2 Nor. I.
			Stewart.....	23.7	101	42	4.0	64	1 C.W. —
			Ramsey.....	26.1	101	40	3.0	66	3 C.W. D.
			Lake.....	35.8	99	34	2.0	64	2 Nor. I.

Necessary difference—2.86 bushels. Rainfall—May to August 4.15 inches.

EDWARD A. STRELAU, ORDALE									
4B.....	15	6	Thatcher.....	47.1	—	38	1.0	64	2 Nor. I.
			Selkirk.....	45.7	—	36	2.0	63	3 Nor. Dk. G.
			Stewart.....	31.4	—	48	3.0	64	3 C.W. Dk. G.
			Ramsey.....	41.0	—	46	3.0	63	3 C.W. Dk. G.
			Lake.....	48.1	—	40	1.0	63	3 Nor. Dk. G.

Necessary difference—4.57 bushels. Rainfall—May to August 4.23 inches.

LAURENT J. DURET, ORMEAUX									
4B.....	15	7	Thatcher.....	33.3	—	—	1.0	65	2 Nor. I.
			Selkirk.....	37.6	—	—	1.0	64	3 Nor. G., I.
			Stewart.....	24.0	—	—	4.0	64	3 C.W. Dk. G.
			Ramsey.....	30.9	—	—	1.0	65	3 C.W. Dk. G.
			Lake.....	36.3	—	—	2.0	64	3 Nor. G., I.

Necessary difference—5.75 bushels. Rainfall—May to August 6.19 inches.

DAVID N. GOODMAN, CRUTWELL									
3J.....	15	8	Thatcher.....	—	113	27	3.3	65	2 Nor. I.
			Selkirk.....	—	111	28	3.0	64	2 Nor. I.
			Stewart.....	—	120	32	5.0	65	3 C.W. Dk. G.
			Ramsey.....	—	120	28	2.3	63	4 C.W. D.
			Lake.....	—	113	31	3.0	65	2 Nor. I.

Test damaged by birds—yields not reliable. Rainfall—May to August 4.87 inches.

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3J..... 15 10 Frank A. Nagy, Foxford.

WHEAT POOL DISTRICT 16

KEN W. WESSON, MAIDSTONE									
3E.....	16	5	Thatcher.....	32.5	96	35	1.0	64	1 Nor. —
			Selkirk.....	28.7	94	34	1.0	62	2 Nor. I.
			Stewart.....	25.7	102	45	2.0	65	2 C.W. I.
			Ramsey.....	28.4	102	38	2.0	65	2 C.W. I.
			Lake.....	32.0	97	36	1.0	63	2 Nor. I.

Necessary difference—2.67 bushels. Rainfall—May to August 4.51 inches.

HELEN M. DAVIS, FURNESS									
3E.....	16	6	Thatcher.....	19.5	90	24	1.5	63	1 Nor. —
			Selkirk.....	18.7	89	22	1.3	62	2 Nor. I.
			Stewart.....	16.6	96	28	5.3	65	1 C.W. —
			Ramsey.....	17.5	96	25	2.8	63	3 C.W. D.
			Lake.....	18.9	94	24	1.0	62	2 Nor. I.

Yield differences not significant. Rainfall—May to August 3.79 inches.

ROBERT L. GEORGE, FAIRHOLME									
4B.....	16	9	Thatcher.....	13.3	—	24	1.5	59	3 Nor. I., Sp.
			Selkirk.....	12.3	—	21	1.5	59	3 Nor. I., Sp.
			Stewart.....	15.4	—	30	3.0	63	4 C.W. I., Sp.
			Ramsey.....	14.9	—	29	2.3	63	4 C.W. I., Sp.
			Lake.....	13.2	—	26	2.0	59	3 Nor. I., Sp.

Yield differences not significant. Rainfall—May to August 2.15 inches.

Wheat Pool District 16—Continued

Cereal Variety Zone	Sub- Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
GUERNSEY W. WALKER, RANGER										
4B.....	16	10	Thatcher.....	28.6	106	29	2.0	64	4 Nor.	F.
			Selkirk.....	28.7	103	28	1.0	63	4 Nor.	F.
			Stewart.....	21.0	118	36	4.3	64	4 C.W.	F.
			Ramsey.....	27.6	117	34	2.5	65	4 C.W.	F.
			Lake.....	27.9	111	30	1.0	63	No. 5	F., St.
Necessary difference—3.16 bushels. Rainfall—May to August 7.77 inches.										
C. DALE MADDEN, SOUTH MAKWA										
3H.....	16	11	Thatcher.....	35.4	—	—	—	63	4 Nor.	F.
			Selkirk.....	26.7	—	—	—	62	4 Nor.	F.
			Stewart.....	29.9	—	—	—	62	5 C.W.	F., St.
			Ramsey.....	27.5	—	—	—	63	5 C.W.	F., St.
			Lake.....	29.6	—	—	—	62	4 Nor.	F.
Yield differences not significant. Rainfall—May to August 6.24 inches.										

OAT TESTS

A total of 46 oat tests were conducted in 1958. They were located only in a number of Cereal Variety Zones where fairly large quantities of oats are grown. This area included the following Cereal Variety Zones: 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 4A and 4B (the location of these zones is shown on the map on page 48). All oat tests contained the five varieties, Exeter, Rodney, Garry, Clintland and Fundy.

DESCRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of these varieties, see "Summarization According to Cereal Variety Zones" on page 37.

Exeter—Exeter is a late maturing, large seeded variety with tall, slightly weak straw. It is resistant to most, but not all, races of stem rust, but is moderately susceptible to leaf rust and the smuts.

Rodney was developed by the Laboratory of Cereal Breeding, Winnipeg. It is mid-late in maturity, high yielding and has strong straw. Rodney is resistant to most races of stem and leaf rust and to loose and covered smut. It has large, plump kernels. The hull tends to shed if not threshed with care.

Garry was developed at the Laboratory of Cereal Breeding, Winnipeg, and later reselected for resistance to Victoria blight. It is resistant to all the races of rust now prevalent, and also to smut. Garry has a plump kernel which is slightly smaller than that of Rodney. It has strong straw. Garry is medium early in maturity.

Clintland was developed at the Agricultural Experiment Station, Lafayette, Indiana. It is an early maturing variety with short, strong straw. It is resistant to some but not all races of stem and crown rust, resistant to smut and to Victoria blight.

Fundy was developed by the Experimental Farm at Fredricton, New Brunswick in co-operation with the Central Experimental Farm, Ottawa. It is an early maturing variety with mid-tall, mid-strong straw. It is resistant to some races of rust, resistant to Victoria blight, and semi-resistant to smut.

Table No. 25—Average Yields in Bushels Per Acre
Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satis- factory Tests	Exeter	Rodney	Garry	Clintland	Fundy	Necessary Difference in bu.*
3A.....	3	38.1	32.7	35.0	22.2	32.7	N.S.
3B.....	4	82.3	84.1	79.7	59.1	74.2	5.00
3C.....	9	47.4	43.8	43.7	33.3	45.4	2.26
3D.....	5	84.6	78.1	76.3	50.0	71.5	4.40
3E.....	2	45.4	42.1	43.6	28.2	44.2	N.S.
3F.....	2	99.9	89.8	87.7	54.7	83.5	N.S.
3G.....	4	65.4	60.5	58.8	41.5	60.5	N.S.
3H.....	2	61.4	59.1	57.2	37.8	53.0	4.74
3J.....	2	91.7	93.8	84.0	53.8	74.4	9.21
4B.....	2						

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.—Yield differences not significant.

**See zone map, page 48.

Table No. 25. On an average **Exeter** outyielded the other four varieties. It placed first in seven of these zones and second in the remaining two. **Rodney** placed second on an average basis. **Garry** placed third on an average basis with considerable variation in its placing from one zone to another. **Fundy** was fairly consistently lower in yield than the three varieties mentioned previously, and **Clintland** ranked fifth in all of these zones.

**Table No. 26—Average Number of Days From Seeding to Ripening
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Exeter	Rodney	Garry	Clintland	Fundy
3A.....	96.0	96.0	95.3	94.3	93.0
3B.....	98.8	99.3	98.3	87.5	92.8
3C.....	89.3	88.5	88.8	87.8	87.4
3D.....	92.0	92.3	91.8	90.0	89.8
3E.....	85.7	87.3	84.3	78.0	82.7
3F.....	100.0	92.0	92.0	83.0	87.0
3G.....	96.7	96.7	97.3	100.7	95.7
3J.....	95.5	96.0	97.0	91.5	94.5
4B.....	92.7	91.3	90.7	87.7	86.7

Table No. 26. The two varieties **Clintland** and **Fundy** were considerably earlier in maturity than the remaining three. On an average basis, **Garry** and **Rodney** placed third and fourth respectively with **Exeter** generally maturing later than the others.

**Table No. 27—Average Height of Plants in Inches
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Exeter	Rodney	Garry	Clintland	Fundy
3A.....	30.3	29.0	30.0	25.0	30.0
3B.....	29.8	30.3	31.5	29.8	33.3
3C.....	27.0	27.8	28.9	25.8	28.8
3D.....	34.2	33.0	34.1	28.2	32.8
3E.....	25.0	25.7	26.3	26.7	27.3
3F.....	34.0	34.0	35.0	32.0	35.0
3G.....	29.6	29.6	29.8	24.6	28.8
3J.....	33.5	33.0	34.5	29.0	34.5
4B.....	28.3	24.3	26.7	18.3	27.0

Table No. 27. With a few exceptions, the differences in plant height in these zones were not of economic significance. **Clintland** was generally shorter than the other four varieties and in several zones the difference amounted to as much as six inches. In some of the northern zones particularly, shorter straw is desirable because it has less tendency to lodge.

**Table No. 28—Average Straw Strength of Plants
On the Basis 1 (Strong) to 9 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Exeter	Rodney	Garry	Clintland	Fundy
3A.....	2.0	2.1	2.0	1.3	2.5
3B.....	3.0	1.4	1.7	1.6	3.4
3C.....	2.5	1.7	1.9	1.7	2.1
3D.....	2.8	1.8	1.9	3.7	2.8
3E.....	3.8	3.7	4.0	4.1	4.3
3G.....	3.6	3.1	3.4	3.0	3.6
3J.....	2.7	1.3	1.3	1.7	2.4
4B.....	4.0	3.0	2.7	5.0	6.2

Table No. 28. **Rodney** showed generally stronger straw than the other varieties. It placed first in three of these zones and tied for first place in two others. It placed second in two zones and fourth in the remaining one. **Garry** placed second on an average basis followed by **Clintland**. **Exeter** and **Fundy** placed fourth and fifth respectively on an average basis.

**Table No. 29—Average Weight Per Measured Bushel
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Exeter	Rodney	Garry	Clintland	Fundy
3A.....	34.8	37.5	36.0	35.8	34.5
3B.....	36.0	38.3	36.5	37.0	35.0
3C.....	35.6	37.9	35.8	36.9	35.0
3D.....	37.0	38.7	37.2	36.5	35.3
3E.....	34.3	36.3	34.7	36.3	33.7
3F.....	38.5	40.5	38.5	38.0	36.5
3G.....	36.4	36.4	35.8	35.2	34.4
3J.....	38.0	40.0	39.0	36.0	36.5
4B.....	37.0	39.0	38.3	36.0	36.0

Table No. 29. On an average basis, the varieties ranked in the following order in regard to bushel weight: **Rodney, Garry, Clintland, Exeter, Fundy**. This order was fairly consistent throughout the area.

Table No. 30—Percentage of Commercial Grades by Varieties

Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex 1 Fd. %	1 Fd. %	2 Fd. %
Exeter.....	2.6	12.8	25.6	17.9	30.8	10.3
Rodney.....	7.7	23.1	15.4	30.8	17.9	5.1
Garry.....	2.6	20.5	25.6	12.8	28.2	10.3
Clintland.....	2.6	20.5	20.5	12.8	30.8	12.8
Fundy.....	—	7.7	20.5	2.6	48.7	20.5

Table No. 30. The three varieties **Rodney, Garry** and **Clintland** all graded well with only a slight margin in favor of **Rodney**. **Exeter** ranked fourth and **Fundy** was considerably lower in grade.

Summarization According to Cereal Variety Zones

No oat tests were conducted by the Wheat Pool during 1956 and 1957 so it will not be possible to give a comparison over a period of several consecutive years but some of the same varieties were tested in 1955 and reference will be made in this section to yields in that year.

Table No. 31—Summarized Results for Zone 3A
(3 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	38.1	32.7	35.0	22.2	32.7
Days from seeding to ripening.....	96.0	96.0	95.3	94.3	93.0
Height of plants in inches.....	30.3	29.0	30.0	25.0	30.0
Straw strength (basis 1-strong to 9-weak)	2.0	2.1	2.0	1.3	2.5
Bushel weight in pounds.....	34.8	37.5	36.0	35.8	34.5
Commercial grades in percentage: 2 C.W.....	25.0	25.0	—	25.0	—
3 C.W.....	25.0	25.0	50.0	25.0	25.0
1 Fd.....	25.0	50.0	50.0	50.0	75.0
2 Fd.....	25.0	—	—	—	—

*Yield differences not significant.

Table No. 31. **Exeter** outyielded the other four varieties tested in this zone in 1958. However, in 1955, the last year in which it was tested by the Wheat Pool, it placed fourth of the four varieties. Because **Exeter** is susceptible to some races of rust which are a threat in this zone, it is not recommended.

Garry placed second in yield in this zone in 1958, and also in 1955. It is rust resistant and is officially recommended for the zone.

Rodney and **Fundy** tied for third place in this zone in 1958. **Rodney** yielded well in 1955 also, outyielding the other three varieties tested in that year. It is officially recommended for the zone. **Fundy** was tested by the Wheat Pool for the first time in 1958.

Clintland was outyielded by the other four varieties tested by the Wheat Pool in 1958. It was outyielded in all of the zones in which oats were tested in 1958. **Clintland** does not appear to have any particular adaptation to this area.

Table No. 32—Summarized Results for Zone 3B
(4 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	82.3	84.1	79.7	59.1	74.2
Days from seeding to ripening.....	98.8	99.3	98.3	87.5	92.8
Height of plants in inches.....	29.8	30.3	31.5	29.8	33.3
Straw strength (basis 1-strong to 9-weak)	3.0	1.4	1.7	1.6	3.4
Bushel weight in pounds.....	36.0	38.3	36.5	37.0	35.0
Commercial grades in percentage: 2 C.W.....	—	25.0	—	25.0	—
3 C.W.....	25.0	—	25.0	—	25.0
Ex. 1 Fd.....	25.0	75.0	25.0	25.0	25.0
1 Fd.....	50.0	—	50.0	50.0	50.0

*Necessary difference—5.00 bushels.

Table No. 32. **Rodney** placed first in yield in this zone in both 1955 and 1958. It appears adapted to this area and because of its rust resistance, it is officially recommended for the zone.

Exeter ranked second in this zone in 1958. It placed third in 1955. Because of its susceptibility to some races of rust, it is not recommended for this zone.

Garry placed third in yield in this zone in 1958. It placed second of the four varieties tested in this zone in 1955. Because its rust resistance is an important factor in this zone, it is officially recommended.

Fundy placed fourth in yield in 1958, its first year of testing by the Wheat Pool.

Clintland was substantially outyielded by the other four varieties tested in this zone.

Table No. 33—Summarized Results for Zone 3C
(9 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	47.4	43.8	43.7	33.3	45.4
Days from seeding to ripening	89.3	88.5	88.8	87.8	87.4
Height of plants in inches	27.0	27.8	28.9	25.8	28.8
Straw strength (basis 1-strong to 9-weak)	2.5	1.7	1.9	1.7	2.1
Bushel weight in pounds	35.6	37.9	35.8	36.9	35.0
Commercial grades in percentage:					
1 C.W.	—	20.0	—	10.0	—
2 C.W.	—	20.0	30.0	20.0	—
3 C.W.	40.0	20.0	40.0	40.0	30.0
Ex. 1 Fd.	30.0	30.0	10.0	10.0	—
1 Fd.	10.0	—	10.0	—	50.0
2 Fd.	20.0	10.0	10.0	20.0	20.0

*Necessary difference—2.26 bushels.

Table No. 33. **Exeter** placed first in yield in this zone in both 1955 and 1958. However, these were both rust free years and less satisfactory results might be expected under rust conditions. For this reason, it is not recommended for the zone.

Fundy placed second in this zone in its first year of testing by the Wheat Pool. It requires further testing to accurately assess its yielding ability.

Rodney placed third in this zone in 1958. It placed second in 1955. Its rust resistance is an important feature in this zone and it is officially recommended.

Garry placed fourth in this zone in 1958, and third in 1955. It is recommended for this zone because of its rust resistance.

Clintland was considerably lower in yield than the other four varieties tested in this zone in 1958. It does not appear to be adapted to this area.

Table No. 34—Summarized Results for Zone 3D
(5 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	84.6	78.1	76.3	50.0	71.5
Days from seeding to ripening	92.0	92.3	91.8	90.0	89.8
Height of plants in inches	34.2	33.0	34.1	28.2	32.8
Straw strength (basis 1-strong to 9-weak)	2.8	1.8	1.9	3.7	2.8
Bushel weight in pounds	37.0	38.7	37.2	36.5	35.3
Commercial grades in percentage:					
2 C.W.	33.3	33.3	33.3	16.7	—
3 C.W.	—	—	—	—	16.7
Ex. 1 Fd.	33.3	50.0	16.7	33.3	—
1 Fd.	33.4	16.7	50.0	33.3	50.0
2 Fd.	—	—	—	16.7	33.3

*Necessary difference—4.40 bushels.

Table No. 34. **Exeter** outyielded the other four varieties tested in this zone in 1958. It placed first in 1955 as well. It appears well adapted to this area and is officially recommended.

Rodney placed second in this zone in 1958 and third in 1955. It has yielded well in this zone in other tests and is officially recommended.

Garry placed third in 1958 and second in 1955. It is officially recommended for this zone.

Fundy placed fourth in this zone in its first year of testing by the Wheat Pool. Further testing is required to determine its adaptability.

Clintland yielded well below the other four varieties in 1958.

Table No. 35—Summarized Results for Zone 3E
(2 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	45.4	42.1	43.6	28.2	44.2
Days from seeding to ripening	85.7	87.3	84.3	78.0	82.7
Height of plants in inches	25.0	25.7	26.3	26.7	27.3
Straw strength (basis 1-strong to 9-weak)	3.8	3.7	4.0	4.1	4.3
Bushel weight in pounds	34.3	36.3	34.7	36.3	33.7
Commercial grades in percentage: 2 C.W.	—	33.3	33.3	33.3	33.3
3 C.W.	66.7	66.7	33.3	66.7	—
2 Fd.	33.3	—	33.4	—	66.7

*Yield differences not significant.

Table No. 35. Exeter placed first in this zone in 1955 and in 1958. It is officially recommended for the zone.

Fundy placed second in yield in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability.

Garry placed third in yield in both 1955 and 1958. It yielded well in other tests in this zone and is officially recommended.

Rodney placed fourth in this zone in 1958. It yielded better in 1955 when it placed second. It has yielded well in other tests in the zone and is officially recommended.

Clintland was outyielded by the other four varieties by a wide margin in 1958.

In addition to the recommended varieties mentioned above, **Eagle** is also officially recommended.

Table No. 36—Summarized Results for Zone 3F
(2 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	99.9	89.8	87.7	54.7	83.5
Days from seeding to ripening	100.0	92.0	92.0	83.0	87.0
Height of plants in inches	34.0	34.0	35.0	32.0	35.0
Straw strength (basis 1-strong to 9-weak)	—	—	—	—	—
Bushel weight in pounds	38.5	40.5	38.5	38.0	36.5
Commercial grades in percentage: 2 C.W.	50.0	50.0	50.0	50.0	50.0
3 C.W.	50.0	50.0	50.0	50.0	50.0

*Yield differences not significant.

Table No. 36. Exeter outyielded the other four varieties tested in this zone in 1958. No oat tests were located in this zone in 1955. In other tests in this zone, Exeter has yielded well. It is officially recommended.

Rodney placed second in yield in this zone in 1958. It is well adapted to the area and is officially recommended for this zone.

Garry ranked third in this zone in 1958. It, too, is well adapted to the area and is officially recommended for the zone.

Fundy placed fourth in yield in 1958. It has not been tested sufficiently to determine its adaptability in this area.

Clintland was outyielded by a wide margin by the other varieties tested in this zone in 1958. It does not appear adapted to this area.

In addition to the varieties mentioned above, **Eagle** is also officially recommended for this zone.

Table No. 37—Summarized Results for Zone 3G
(4 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	65.4	60.5	58.8	41.5	60.5
Days from seeding to ripening	96.7	96.7	97.3	100.7	95.7
Height of plants in inches	29.6	29.6	29.8	24.6	28.8
Straw strength (basis 1-strong to 9-weak)	3.6	3.1	3.4	3.0	3.6
Bushel weight in pounds	36.4	36.4	35.8	35.2	34.4
Commercial grades in percentage: 1 C.W.	—	20.0	—	—	—
2 C.W.	20.0	—	20.0	—	—
3 C.W.	—	—	—	—	20.0
Ex. 1 Fd.	—	20.0	20.0	20.0	—
1 Fd.	80.0	40.0	20.0	60.0	40.0
2 Fd.	—	20.0	40.0	20.0	40.0

*Yield differences not significant.

Table No. 37. Exeter outyielded the other four varieties tested in this zone in 1958. It placed first in 1955 as well. Exeter is well adapted to this area and is officially recommended.

Rodney and Fundy yielded equally well in this zone in 1958. Rodney placed second in 1955 as well. It is officially recommended for the zone. Fundy requires further testing to accurately assess its adaptation.

Garry yielded only slightly less than Rodney and Fundy in this zone in 1958. It placed fourth in yield in 1955. However, it has yielded well in other tests in this zone and is officially recommended.

Clintland yielded considerably less than the other four varieties tested in this zone. While the yield difference is not significant in this zone, the low yield of this variety in other zones suggests that it is not well adapted.

In addition to the recommended varieties mentioned above, Eagle and Fortune are officially recommended for this zone.

Cereal Variety Zone 3H

Only one successful oat test was located in this zone in 1958. It was conducted by Richard Hutter of Goodsoil and can be found in the section "Individual Summarized Results of all Tests—Oats" on page 47.

Eagle, Fortune and Victory are officially recommended for the zone.

Table No. 38—Summarized Results for Zone 3J
(2 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	61.4	59.1	57.2	37.8	53.0
Days from seeding to ripening	95.5	96.0	97.0	91.5	94.5
Height of plants in inches	33.5	33.0	34.5	29.0	34.5
Straw strength (basis 1-strong to 9-weak)	2.7	1.3	1.3	1.7	2.4
Bushel weight in pounds	38.0	40.0	39.0	36.0	36.5
Commercial grades in percentage: 1 C.W.	50.0	—	50.0	—	—
2 C.W.	—	50.0	—	50.0	50.0
Ex. 1 Fd.	50.0	50.0	50.0	—	—
1 Fd.	—	—	—	50.0	50.0

*Necessary difference—4.74 bushels.

Table No. 38. No oat tests were conducted in this zone in 1955 so only one year's yield information is available from Wheat Pool tests. **Exeter** outyielded the other four varieties tested in 1958. It has yielded well in other tests in this area and is officially recommended.

Rodney placed second in yield in 1958. It also is officially recommended for the zone.

Garry placed third in this zone in 1958. It has yielded well in other tests and is officially recommended.

Fundy placed fourth in this zone in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability.

Clintland was outyielded by the other varieties by a substantial margin. It does not appear adapted to this area.

In addition to the recommended varieties mentioned above, **Eagle** is also officially recommended.

Cereal Variety Zone 4A

Only one successful test was located in this zone in 1958. It was conducted by Donald Larson of Garrick and can be found in the section "Individual Summarized Results of all Tests—Oats" on page 46.

Exeter, **Garry** and **Rodney** are officially recommended for this zone.

Table No. 39—Summarized Results for Zone 4B

(2 successful tests)

	Exeter	Rodney	Garry	Clintland	Fundy
Yield in bushels per acre*	91.7	93.8	84.0	53.8	74.4
Days from seeding to ripening	92.7	91.3	90.7	87.7	86.7
Height of plants in inches	28.3	24.3	26.7	18.3	27.0
Straw strength (basis 1-strong to 9-weak)	4.0	3.0	2.7	5.0	6.2
Bushel weight in pounds	37.0	39.0	38.3	36.0	36.0
Commercial grades in percentage:					
3 C.W.	33.3	—	33.3	—	—
Ex. 1 Fd.	—	33.3	—	—	—
1 Fd.	66.7	66.7	66.7	66.7	100.0
2 Fd.	—	—	—	33.3	—

*Necessary difference—9.21 bushels.

Table No. 39. Rodney outyielded the other four varieties tested in this zone in 1958. In 1955 it placed second. However, in other tests it has not yielded as well and it is not officially recommended for the zone.

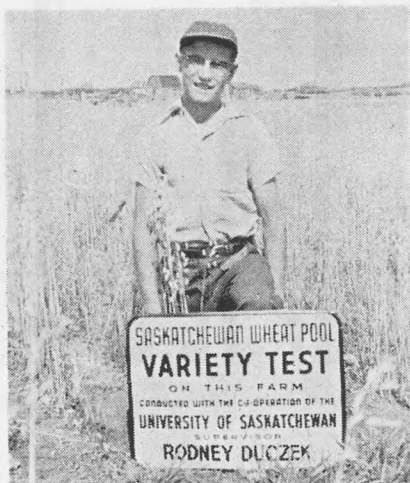
Exeter placed second in yield in this zone in 1958 and it placed first in 1955. It has yielded well in other tests as well and is officially recommended.

Garry placed third in this zone in both 1955 and 1958. It is not officially recommended for the zone.

Fundy placed fourth in this zone in its first year of testing by the Wheat Pool. It requires further testing to determine its adaptability.

Clintland was substantially outyielded by the other four varieties tested in this zone in 1958.

In addition to **Exeter**, **Eagle** is officially recommended for the zone.

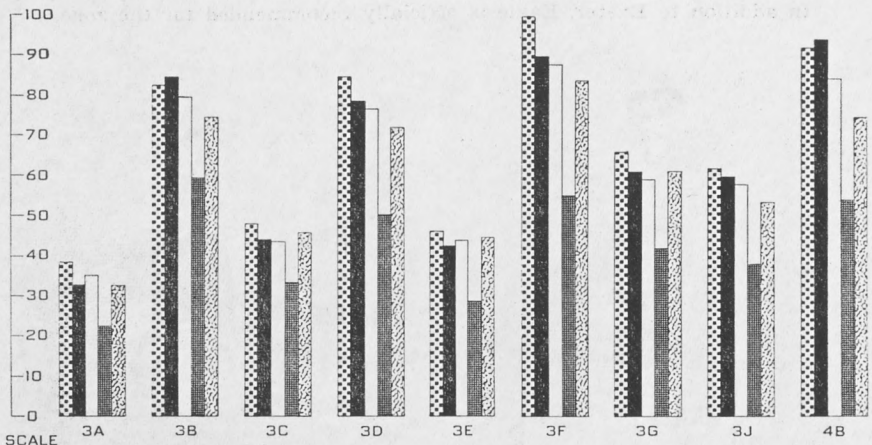
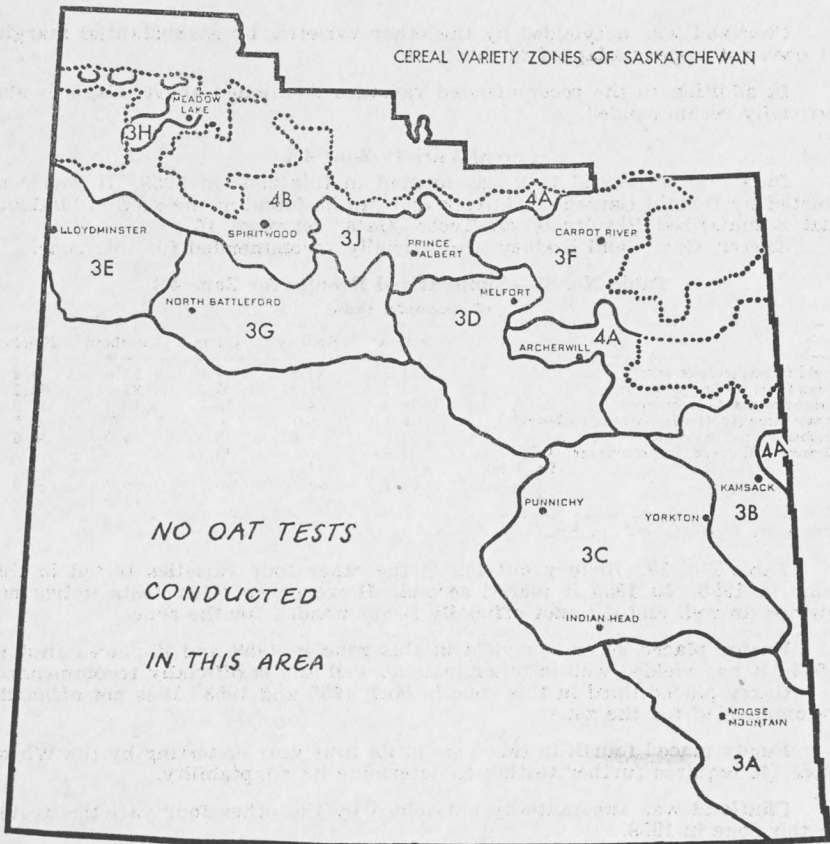


Rodney Ducek of Grayson is shown examining his oat test shortly before harvest.



A heavy stand of oats grew in this test conducted by Lynell Pylatiuk at St. Front.

CEREAL VARIETY ZONES OF SASKATCHEWAN



SCALE
IN
BUSHELS

LEGEND:

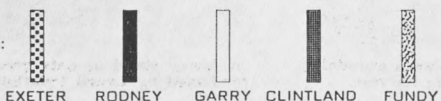


Table No. 40

Individual Summarized Results of All Tests—Oats

The results of all successful oat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used on the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Growing Remarks" see page 8.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
CHARLES W. GILROY, OXBOW										
3A.....	1	3	Exeter.....	45.7	85	27	3.3	36	1 Fd.	G.
			Rodney.....	44.2	87	27	3.0	38	1 Fd.	G.
			Garry.....	41.6	85	29	2.5	37	1 Fd.	G.
			Clintonland.....	28.1	79	24	1.3	37	1 Fd.	G.
			Fundy.....	37.5	80	29	4.0	35	1 Fd.	G.
Necessary difference—6.22 bushels. Rainfall—May to August 2.43 inches.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3A.....	1	1	Lloyd I. Redpath, Gainsborough.
3A.....	1	10	Richard H. Slykhuis, Carlyle.

WHEAT POOL DISTRICT 6

JACKIE LEIBEL, BALGONIE										
3C.....	6	7	Exeter.....	26.8	100	22	3.0	32	2 Fd.	—
			Rodney.....	27.6	100	22	2.3	36	2 Fd.	G.
			Garry.....	23.3	100	23	2.0	31	2 Fd.	G.
			Clintonland.....	22.5	100	23	2.5	34	2 Fd.	G.
			Fundy.....	27.9	100	24	3.0	35	2 Fd.	G.
Yield differences not significant. Rainfall—May to August 2.19 inches.										

WHEAT POOL DISTRICT 7

HUGH D. McLAREN, MARYFIELD										
3A.....	7	1	Exeter.....	25.6	98	38	2.8	31	2 Fd.	—
			Rodney.....	23.4	98	34	3.0	35	1 Fd.	G.
			Garry.....	22.0	98	35	3.3	36	1 Fd.	G.
			Clintonland.....	7.5	106	27	2.0	35	1 Fd.	—
			Fundy.....	20.0	98	36	3.5	34	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.12 inches.										

KENNETH W. FOLBAR, WINDTHORST										
3A.....	7	4	Exeter.....	20.6	105	31	1.0	37	2 C.W.	—
			Rodney.....	22.8	103	30	1.0	39	2 C.W.	G.
			Garry.....	19.7	103	29	1.0	35	3 C.W.	—
			Clintonland.....	12.6	98	26	1.0	35	3 C.W.	—
			Fundy.....	23.2	101	30	1.0	35	3 C.W.	—
Test damaged by hail—yields not included in zone summary. Rainfall—May to August 5.07 inches.										

DONALD S. FATHERS, BROADVIEW										
3A.....	7	7	Exeter.....	43.1	—	25	1.0	35	3 C.W.	—
			Rodney.....	30.4	—	25	1.3	38	3 C.W.	G.
			Garry.....	41.4	—	27	1.0	36	3 C.W.	G.
			Clintonland.....	31.0	—	23	1.0	36	2 C.W.	G.
			Fundy.....	40.7	—	25	1.3	34	1 Fd.	G.
Yield differences not significant. Rainfall—May to August 4.19 inches.										

K. EARL KINGDON, ROCANVILLE										
3C.....	7	8	Exeter.....	25.3	80	17	1.0	34	1 Fd.	G.
			Rodney.....	15.0	78	24	3.0	38	3 C.W.	G.
			Garry.....	17.0	78	26	2.0	36	3 C.W.	G.
			Clintonland.....	21.7	79	15	1.0	38	3 C.W.	G.
			Fundy.....	25.5	78	20	1.0	34	1 Fd.	G.
Yield differences not significant. Rainfall—May to August 3.68 inches.										

Wheat Pool District 7—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
S. MURRAY PASK, ATWATER										
3C.....	7	10	Exeter.....	48.3	91	31	4.0	35	3 C.W.	—
			Rodney.....	45.1	89	30	2.3	38	1 C.W.	—
			Garry.....	38.5	89	32	3.0	36	2 C.W.	—
			Clintland.....	28.3	87	28	2.3	36	2 C.W.	—
			Fundy.....	40.9	89	33	3.0	34	1 Fd.	G.
Necessary difference—7.34 bushels. Rainfall—May to August 5.62 inches.										
RODNEY J. DUCZEK, GRAYSON										
3C.....	7	11	Exeter.....	—	77	27	2.3	40	Ex. 1 Fd.	G.
			Rodney.....	—	79	27	1.0	38	Ex. 1 Fd.	G.
			Garry.....	—	80	28	1.5	36	1 Fd.	G.
			Clintland.....	—	79	26	1.0	38	Ex. 1 Fd.	G.
			Fundy.....	—	79	29	2.0	36	1 Fd.	G.
Test damaged by birds—yields not reliable. Rainfall—May to August 2.49 inches.										

WHEAT POOL DISTRICT 8

IRVING J. SOOS, MELVILLE										
3C.....	8	3	Exeter.....	37.4	94	24	2.8	38	Ex. 1 Fd.	G.
			Rodney.....	30.9	94	23	1.0	39	Ex. 1 Fd.	G.
			Garry.....	34.6	94	26	1.8	38	Ex. 1 Fd.	G.
			Clintland.....	22.1	94	23	2.3	37	2 Fd.	G.
			Fundy.....	34.3	94	26	2.5	37	1 Fd.	G.
Necessary difference—7.81 bushels. Rainfall—May to August 2.41 inches.										
SAMUEL BERG, SPRINGSIDE										
3C.....	8	4	Exeter.....	84.9	93	38	3.3	34	3 C.W.	—
			Rodney.....	81.3	90	39	1.3	37	2 C.W.	G.
			Garry.....	83.2	92	39	2.0	35	3 C.W.	—
			Clintland.....	66.9	90	34	1.8	35	2 C.W.	G.
			Fundy.....	82.2	90	39	2.3	34	3 C.W.	—
Necessary difference—5.07 bushels. Rainfall—May to August 4.92 inches.										
LORNE M. ZARAZUN, TINY										
3B.....	8	6	Exeter.....	36.7	94	22	4.3	36	1 Fd.	W.
			Rodney.....	46.9	93	23	2.3	38	Ex. 1 Fd.	W.
			Garry.....	48.9	94	26	3.0	37	1 Fd.	W.
			Clintland.....	33.0	86	22	2.8	36	1 Fd.	W.
			Fundy.....	39.2	90	26	7.3	35	1 Fd.	W.
Yield differences not significant. Rainfall—May to August 5.41 inches.										
LARRY A. SACKNEY, SHEHO										
3C.....	8	7	Exeter.....	57.8	—	—	—	38	Ex. 1 Fd.	W.
			Rodney.....	65.2	—	—	—	39	Ex. 1 Fd.	W.
			Garry.....	57.7	—	—	—	37	3 C.W.	G.
			Clintland.....	43.8	—	—	—	39	3 C.W.	G.
			Fundy.....	61.0	—	—	—	35	1 Fd.	W.
Necessary difference—10.89 bushels. Rainfall—May to August 4.92 inches.										
GRANT W. G. WEEKS, HASSAN										
3B.....	8	8	Exeter.....	97.1	92	30	2.0	36	1 Fd.	W.
			Rodney.....	93.6	92	29	1.0	38	Ex. 1 Fd.	W.
			Garry.....	87.2	92	30	1.0	36	1 Fd.	W.
			Clintland.....	68.1	89	27	1.0	37	1 Fd.	W.
			Fundy.....	85.9	89	32	2.0	35	1 Fd.	W.
Necessary difference—6.25 bushels. Rainfall—May to August 4.57 inches.										
CALVIN G. JOHNSON, NORQUAY										
3B.....	8	9	Exeter.....	132.4	108	35	2.8	38	Ex. 1 Fd.	W.
			Rodney.....	126.4	108	36	1.0	40	Ex. 1 Fd.	W.
			Garry.....	122.7	108	37	1.0	38	Ex. 1 Fd.	W.
			Clintland.....	81.8	85	37	1.0	38	Ex. 1 Fd.	W.
			Fundy.....	107.4	102	41	1.0	36	Ex. 1 Fd.	W.
Necessary difference—11.13 bushels. Rainfall—May to August 5.89 inches.										
ALBERT PRYSLAK, PELLY										
3B.....	8	10	Exeter.....	62.9	101	32	—	34	3 C.W.	—
			Rodney.....	69.3	104	33	—	37	2 C.W.	—
			Garry.....	60.1	99	33	—	35	3 C.W.	—
			Clintland.....	53.3	90	33	—	37	2 C.W.	—
			Fundy.....	64.2	90	34	—	34	3 C.W.	—
Necessary difference—7.10 bushels. Rainfall—May to August 4.73 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
3B.....	8	5	Kenneth G. Warriner, Kamsack.							

WHEAT POOL DISTRICT 9

GEORGEAN KRUSHELNISKI, ITUNA										
3C.....	9	1	Exeter.....	44.5	—	—	—	32	2 Fd.	—
			Rodney.....	35.0	—	—	—	37	2 C.W.	—
			Garry.....	39.1	—	—	—	36	2 C.W.	—
			Clintland.....	23.8	—	—	—	35	3 C.W.	—
			Fundy.....	37.9	—	—	—	33	2 Fd.	—
Necessary difference—6.87 bushels. Rainfall record incomplete.										

Wheat Pool District 9—Continued

Cereal Variety Zone	Sub- Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
DAVID C. HAMILTON, LEROY										
3D.....	9	8	Exeter.....	74.8	98	34	2.3	36	2 C.W.	—
			Rodney.....	69.5	98	33	1.0	38	2 C.W.	G.
			Garry.....	66.6	97	34	1.0	37	2 C.W.	—
			Clintland.....	36.1	96	31	1.3	33	2 Fd.	—
			Fundy.....	51.3	96	35	1.8	33	2 Fd.	—
Necessary difference—6.59 bushels. Rainfall—May to August 4.10 inches.										
BARRY G. MILLER, TUFFNELL										
3C.....	9	9	Exeter.....	55.3	92	34	1.0	38	3 C.W.	G.
			Rodney.....	51.6	92	33	1.0	39	3 C.W.	G.
			Garry.....	54.0	92	34	1.0	37	3 C.W.	G.
			Clintland.....	33.6	92	32	1.0	39	3 C.W.	G.
			Fundy.....	54.3	88	34	1.0	37	3 C.W.	G.
Necessary difference—6.78 bushels. Rainfall—May to August 4.84 inches.										
MARVIN D. HOBERG, ELFROS										
3C.....	9	10	Exeter.....	46.5	87	23	—	35	3 C.W.	—
			Rodney.....	42.7	86	24	—	38	1 C.W.	—
			Garry.....	46.0	85	23	—	36	2 C.W.	—
			Clintland.....	37.0	81	25	—	38	1 C.W.	—
			Fundy.....	46.4	81	25	—	35	3 C.W.	—
Necessary difference—4.56 bushels. Rainfall—May to August 3.97 inches.										

WHEAT POOL DISTRICT 12

HELEN M. FULLERTON, BALJENNIE										
3G.....	12	2	Exeter.....	62.7	102	25	3.8	37	1 Fd.	G.
			Rodney.....	54.0	102	26	2.5	39	Ex. 1 Fd.	G.
			Garry.....	56.7	104	25	3.3	38	Ex. 1 Fd.	G.
			Clintland.....	39.5	103	21	2.0	38	Ex. 1 Fd.	G.
			Fundy.....	62.4	99	24	3.0	36	1 Fd.	G.
Yield differences not significant. Rainfall—May to August 8.24 inches.										
DWIGHT FAIRLEY, BALDWIN										
3E.....	12	8	Exeter.....	47.9	81	30	7.5	37	3 C.W.	G.
			Rodney.....	45.2	86	30	8.0	39	2 C.W.	G.
			Garry.....	45.3	80	32	8.0	37	2 C.W.	—
			Clintland.....	23.5	75	28	6.0	39	2 C.W.	G.
			Fundy.....	43.4	86	31	8.0	37	2 C.W.	—
Necessary difference—5.73 bushels. Rainfall—May to August 3.17 inches.										

WHEAT POOL DISTRICT 13

JOHN M. EARIS, BAY TRAIL										
3D.....	13	1	Exeter.....	52.1	—	28	2.8	34	1 Fd.	G.
			Rodney.....	51.9	—	26	2.0	37	1 Fd.	G.
			Garry.....	54.6	—	29	2.3	36	1 Fd.	G.
			Clintland.....	10.1	—	23	8.0	36	1 Fd.	G.
			Fundy.....	41.7	—	28	3.0	33	2 Fd.	—
Test damaged by wind—yields not included in zone summary. Rainfall—May to August 5.29 inches.										
ALFRED NIENABER, ST. GREGOR										
3D.....	13	11	Exeter.....	81.9	88	34	2.0	37	1 Fd.	W.
			Rodney.....	74.6	84	35	2.0	39	Ex. 1 Fd.	W.
			Garry.....	76.0	84	34	2.0	38	Ex. 1 Fd.	W.
			Clintland.....	64.3	81	35	2.0	39	Ex. 1 Fd.	W.
			Fundy.....	74.1	81	36	2.0	37	1 Fd.	G.
Necessary difference—9.62 bushels. Rainfall—May to August 3.93 inches.										

WHEAT POOL DISTRICT 14

ERIC B. DAVIS, NAICAM										
3D.....	14	3	Exeter.....	47.5	—	24	—	39	Ex. 1 Fd.	G.
			Rodney.....	34.7	—	21	—	39	Ex. 1 Fd.	G.
			Garry.....	36.1	—	22	—	37	1 Fd.	G.
			Clintland.....	11.5	—	16	—	35	1 Fd.	G.
			Fundy.....	35.5	—	22	—	35	1 Fd.	G.
Necessary difference—7.49 bushels. Rainfall record incomplete.										
LYNNEL M. PYLATIUK, ST. FRONT										
3D.....	14	4	Exeter.....	114.6	93	43	2.0	38	2 C.W.	G.
			Rodney.....	113.3	94	41	2.0	40	2 C.W.	G.
			Garry.....	115.3	93	44	2.0	38	2 C.W.	G.
			Clintland.....	72.9	90	34	2.0	38	2 C.W.	G.
			Fundy.....	105.0	89	40	2.0	37	3 C.W.	G.
Necessary difference—18.92 bushels. Rainfall—May to August 6.05 inches.										

Wheat Pool District 14—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MILTON R. TURNQUIST, PRAIRIE RIVER										
3F.....	14	6	Exeter.....	93.0	100	34	—	39	3 C.W.	G.
			Rodney.....	87.2	92	34	—	40	3 C.W.	G.
			Garry.....	92.0	92	35	—	38	3 C.W.	G.
			Clintland.....	54.0	83	32	—	38	3 C.W.	G.
			Fundy.....	76.3	87	35	—	36	3 C.W.	G.
Necessary difference—13.31 bushels.				Rainfall—May to August 6.44 inches.						
ALAIN HUDON, ZENON PARK										
3F.....	14	10	Exeter.....	106.8	—	—	—	38	2 C.W.	G.
			Rodney.....	92.3	—	—	—	41	2 C.W.	G.
			Garry.....	83.3	—	—	—	39	2 C.W.	G.
			Clintland.....	55.3	—	—	—	38	2 C.W.	G.
			Fundy.....	90.7	—	—	—	37	2 C.W.	—
Necessary difference—23.18 bushels.				Rainfall—May to August 5.34 inches.						

WHEAT POOL DISTRICT 15

JAMES COCHRAN, FENTON										
3J.....	15	1	Exeter.....	44.4	92	33	3.8	39	1 C.W.	—
			Rodney.....	39.3	94	32	1.5	41	2 C.W.	G.
			Garry.....	44.2	94	34	1.3	40	1 C.W.	—
			Clintland.....	31.0	88	28	2.3	37	2 C.W.	—
			Fundy.....	41.6	88	33	3.3	38	2 C.W.	G.
Necessary difference—5.01 bushels.				Rainfall—May to August 3.35 inches.						
LEONARD BOUTIN, DOMREMY										
3D.....	15	2	Exeter.....	104.1	89	42	5.0	38	Ex. 1 Fd.	W.
			Rodney.....	98.3	93	42	2.0	39	Ex. 1 Fd.	W.
			Garry.....	87.4	93	42	2.0	37	1 Fd.	W.
			Clintland.....	65.1	93	30	5.0	38	Ex. 1 Fd.	W.
			Fundy.....	91.4	93	36	5.0	37	1 Fd.	W.
Necessary difference—5.16 bushels.				Rainfall—May to August 5.22 inches.						
L. GRANT PETERS, LAIRD										
3G.....	15	4	Exeter.....	—	—	29	7.0	34	1 Fd.	—
			Rodney.....	—	—	29	8.3	32	2 Fd.	—
			Garry.....	—	—	30	8.3	32	2 Fd.	—
			Clintland.....	—	—	26	8.3	34	1 Fd.	—
			Fundy.....	—	—	30	7.5	32	2 Fd.	—
Test damaged by hail—yields not reliable.				Rainfall—May to August 6.34 inches.						
HAROLD H. CHRISTENSEN, CANWOOD										
4B.....	15	6	Exeter.....	125.9	84	36	5.0	36	3 C.W.	G.
			Rodney.....	122.7	79	30	4.0	39	Ex. 1 Fd.	W.
			Garry.....	107.8	79	30	3.0	39	3 C.W.	G.
			Clintland.....	67.3	80	24	9.0	37	1 Fd.	W.G.
			Fundy.....	97.2	77	36	7.0	36	1 Fd.	W.
Necessary difference—13.02 bushels.				Rainfall—May to August 5.72 inches.						
ROGER CYR, DEBDEN										
3J.....	15	7	Exeter.....	78.4	99	34	1.5	37	Ex. 1 Fd.	W.
			Rodney.....	78.9	98	34	1.0	39	Ex. 1 Fd.	W.
			Garry.....	70.1	100	35	1.3	38	Ex. 1 Fd.	W.
			Clintland.....	44.5	95	30	1.0	35	1 Fd.	W.
			Fundy.....	64.3	101	36	1.5	35	1 Fd.	W.
Necessary difference—8.67 bushels.				Rainfall—May to August 5.95 inches.						
DONALD J. LARSON, GARRICK										
4A.....	15	11	Exeter.....	120.7	101	48	1.0	36	1 Fd.	W.
			Rodney.....	95.3	102	50	2.3	35	1 Fd.	W.
			Garry.....	102.2	101	48	1.3	36	1 Fd.	W.
			Clintland.....	69.4	100	46	3.8	35	1 Fd.	W.
			Fundy.....	92.4	102	50	1.8	34	1 Fd.	W.
Necessary difference—8.78 bushels.				Rainfall—May to August 6.49 inches.						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3J..... 15 3 William D. Knight, Davis.

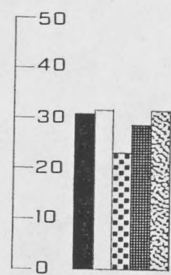
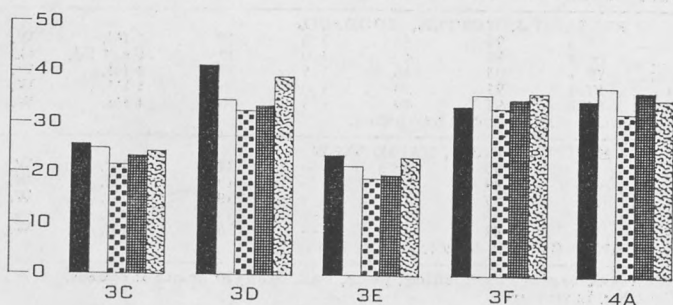
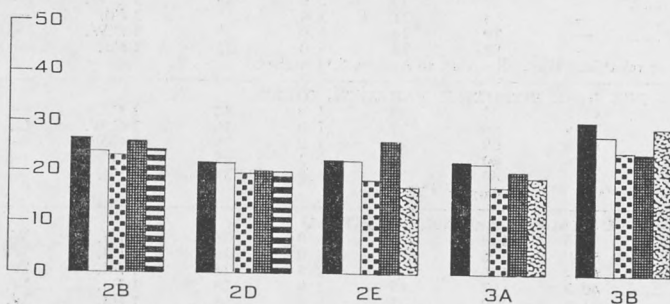
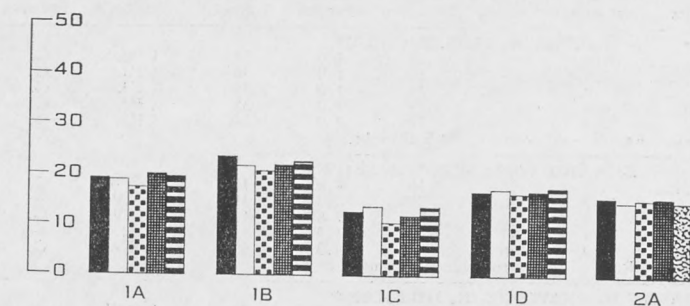
WHEAT POOL DISTRICT 16

ROBERT T. MILLER, FIELDING										
3G.....	16	1	Exeter.....	58.7	92	30	2.3	35	1 Fd.	G.
			Rodney.....	51.1	92	30	1.3	34	1 Fd.	G.
			Garry.....	52.1	92	30	1.5	33	2 Fd.	—
			Clintland.....	44.7	102	22	1.5	36	1 Fd.	G.
			Fundy.....	57.3	92	29	1.3	32	2 Fd.	—
Necessary difference—5.91 bushels.				Rainfall—May to August 5.70 inches.						

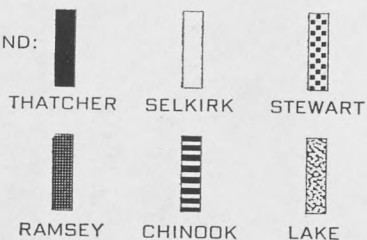
Wheat Pool District 16—Continued

Cereal Variety Zone	Sub- Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
WALTER W. JESS, RICHARD										
3G.....	16	2	Exeter.....	61.4	—	28	1.0	36	1 Fd.	G.
			Rodney.....	57.3	—	28	1.0	36	1 Fd.	G.
			Garry.....	54.8	—	28	1.0	36	1 Fd.	G.
			Clintonland.....	44.3	—	25	2.0	35	1 Fd.	G.
			Fundy.....	56.5	—	27	2.0	34	1 Fd.	G.
Necessary difference—5.42 bushels.				Rainfall—May to August 6.83 inches.						
EDWARD TOMANEK, WHITKOW										
3G.....	16	3	Exeter.....	78.7	96	36	4.0	40	2 C.W.	G.
			Rodney.....	79.7	96	35	2.3	41	1 C.W.	—
			Garry.....	71.6	96	36	2.8	40	2 C.W.	G.
			Clintonland.....	37.4	97	29	1.3	33	2 Fd.	—
			Fundy.....	65.8	96	34	4.3	38	3 C.W.	G.
Necessary difference—12.56 bushels.				Rainfall—May to August 5.36 inches.						
JAMES H. BEAVINGTON, HILLMOND										
3E.....	16	6	Exeter.....	—	87	20	2.0	34	3 C.W.	—
			Rodney.....	—	87	20	2.0	34	3 C.W.	—
			Garry.....	—	84	21	3.0	32	2 Fd.	—
			Clintonland.....	—	79	24	5.0	35	3 C.W.	—
			Fundy.....	—	82	24	3.0	33	2 Fd.	—
Test damaged by birds—yields not reliable.				Rainfall—May to August 5.11 inches.						
JOE R. C. ROTHERY, PARADISE HILL										
3E.....	16	7	Exeter.....	42.8	89	25	1.8	32	2 Fd.	—
			Rodney.....	38.9	89	27	1.0	36	3 C.W.	G.
			Garry.....	41.9	89	26	1.0	35	3 C.W.	—
			Clintonland.....	32.8	80	28	1.3	35	3 C.W.	—
			Fundy.....	45.0	80	27	1.8	31	2 Fd.	—
Yield differences not significant.				Rainfall—May to August 4.73 inches.						
DONALD J. SEIDLE, MEDSTEAD										
4B.....	16	9	Exeter.....	57.5	108	31	3.0	38	1 Fd.	W.
			Rodney.....	64.8	106	24	2.0	38	1 Fd.	W.
			Garry.....	60.2	106	33	2.3	38	1 Fd.	W.
			Clinton.....	40.2	97	15	1.0	38	1 Fd.	W.
			Fundy.....	51.5	100	33	5.3	36	1 Fd.	W.
Necessary difference—14.48 bushels.				Rainfall—May to August 5.55 inches.						
RICHARD J. HUTTER, GOODSOIL										
3H.....	16	11	Exeter.....	53.4	95	45	2.0	35	1 Fd.	W.
			Rodney.....	66.2	95	46	1.0	39	Ex. 1 Fd.	G.
			Garry.....	79.3	95	46	1.5	37	1 Fd.	W.
			Clintonland.....	57.4	91	39	1.0	35	1 Fd.	W.
			Fundy.....	64.6	92	49	1.5	36	1 Fd.	W.
Yield differences not significant.				Rainfall—May to August 6.88 inches.						
ERIC W. GREEN, RAPID VIEW										
4B.....	16	11	Exeter.....	—	86	18	—	37	1 Fd.	W.
			Rodney.....	—	89	19	—	40	1 Fd.	W.
			Garry.....	—	87	17	—	38	1 Fd.	W.
			Clintonland.....	—	86	16	—	33	2 Fd.	—
			Fundy.....	—	83	12	—	36	1 Fd.	W.
Test damaged by birds—yields not reliable.				Rainfall—May to August 7.06 inches.						
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
4B.....	16	10	Marcel Doucette, Laventure.							

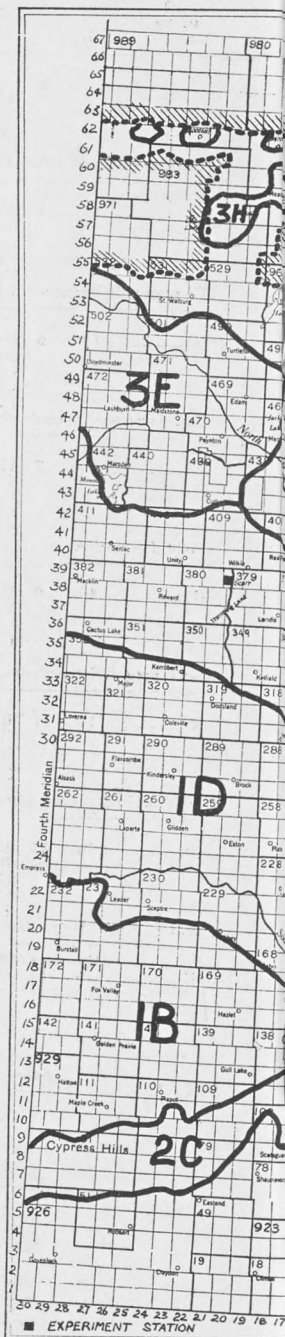
GRAPH SHOWING COMPARATIVE WHEAT YIELDS



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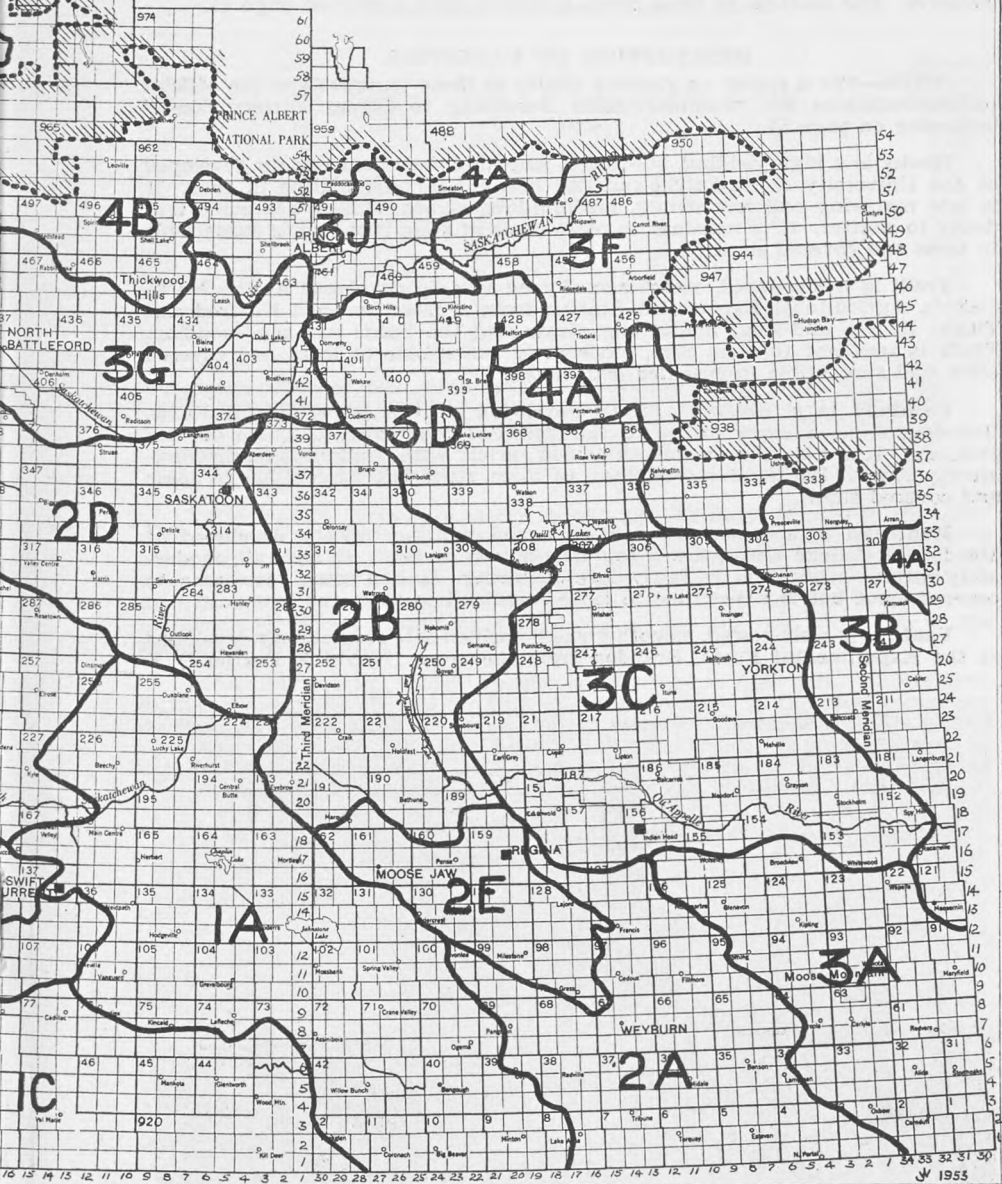


SCALE
IN
BUSHELS



NOTE: This map is

CEREAL VARIETY ZONES OF SASKATCHEWAN



not fully up to date in the numbers and boundaries of municipalities and local improvement districts owing to changes that are being made.

BARLEY TESTS

A total of 116 barley tests were conducted in 1958. Each of these included five varieties. Husky, Traill, Parkland and Montcalm were used in tests throughout the province. Vantage was used in those tests located in the western, south-western and west-central portion of the province including Cereal Variety Zones 1A to 2D, except 2A. In the remainder of the province, Vantage was replaced by York. This area included Zones 2A and 2E to 4B inclusive. The location of these zones is shown on the map on page 45.

DESCRIPTION OF VARIETIES

NOTE—For a report on yielding ability of these varieties and the official recommendations see "Summarization According to Cereal Variety Zones" beginning on page 54.

Husky is a high yielding, six-rowed, smooth-awned feed variety developed at the University of Saskatchewan and licensed for distribution in 1953. It is late maturing and has strong, medium-long straw. Husky has some tendency to shatter. It is resistant to most races of stem rust, but is susceptible to loose and covered smut.

Traill is a six-rowed, rough-awned feed variety developed at the North Dakota Agricultural Experiment Station from a cross between Kindred and Titan. It has mid-long, mid-strong straw and the heads are semi-nodding. Traill is resistant to stem rust, moderately susceptible to loose and covered smut and susceptible to speckled leaf blotch.

Parkland is a malting variety developed at the Experimental Farm, Brandon, from a cross involving the varieties Montcalm, Olli, Newal and Peatland. It is a six-rowed, smooth-awned variety with medium-long, medium-strong straw. Parkland is resistant to stem rust, but susceptible to loose and covered smut.

Montcalm is a six-rowed, smooth-awned malting variety developed at Macdonald College and licensed for distribution in 1945. It has tall, moderately strong straw and is fairly late maturing. It has some resistance to covered smut but is susceptible to loose smut and to stem and leaf rust.

Vantage is a six-rowed, smooth-awned, medium-late feed variety developed at the Experimental Farm, Brandon from the cross (Newal X Peatland) X



Ken Muzygla of Waldron is shown standing beside his barley test early in the season.

Plush. Vantage has strong straw. It is resistant to stem rust, but susceptible to loose and covered smut, leaf rust and leaf blotch.

York is a six-rowed, smooth-awned feed variety developed at the Ontario Agricultural College, Guelph and licensed for commercial distribution in 1958. It has fairly short, strong straw and is medium early in maturity. It is resistant to stem rust but susceptible to loose smut.

Table No. 41—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satis- factory Tests	Husky	Traill	Parkland	Montcalm	Vantage	York	Necessary Difference* in bushels
1A.....	12	32.1	30.9	29.5	32.1	38.2	—	1.82
1B.....	6	44.8	42.7	40.1	43.7	55.5	—	2.88
1C.....	6	21.4	24.1	25.0	23.5	27.6	—	N.S.
1D.....	7	40.2	41.0	34.5	42.0	47.4	—	2.39
2A.....	3	24.1	26.7	24.5	27.6	—	21.1	3.19
2B.....	6	45.6	43.5	42.5	47.6	48.2	—	N.S.
2D.....	9	38.2	35.2	33.1	37.1	41.0	—	N.S.
3A.....	3	30.6	31.4	32.4	31.4	—	31.0	N.S.
3B.....	4	71.1	68.8	63.1	66.9	—	69.5	4.26
3C.....	5	53.6	49.1	45.0	53.6	—	50.4	3.90
3D.....	3	68.3	60.2	56.4	60.7	—	59.3	4.61
3E.....	3	44.4	38.2	35.0	41.2	—	41.9	3.78
3G.....	3	45.0	39.7	32.1	36.5	—	33.2	3.02
3J.....	3	97.0	81.5	78.3	84.5	—	73.5	8.51
4A.....	3	66.6	66.5	61.7	69.6	—	69.2	N.S.

***Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.—Yield differences not significant.

**See zone map, page 48.

Table No. 41. Zones 1A to 2D, except 2A. **Vantage** outyielded the other four varieties in all six of these zones in 1958. **Montcalm** and **Husky** placed second and third respectively on an average basis. In most of the zones there were only small differences in yield between the two. **Traill** placed fourth on an average basis. It placed third in two of the zones and fourth in the remaining four zones. **Parkland** placed second in one zone, and fifth in the remaining five zones.

Zones 2A and 2E to 4B. **Husky** yielded well in this area, placing first in five of the zones. It tied for first place in one zone. In the three remaining zones it was outyielded by several other varieties. **Montcalm** placed second on an average basis, with considerable variation in placing from one zone to another. **Traill** and **York** placed third and fourth respectively and **Parkland** was outyielded by the other varieties in six of the nine zones.

Table No. 42—Average Number of Days From Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A.....	94.9	94.7	93.7	94.1	95.1	—
1B.....	86.0	84.7	85.7	84.7	84.0	—
1C.....	97.3	96.8	95.5	95.8	95.0	—
1D.....	89.8	90.2	89.3	89.5	90.3	—
2A.....	84.0	86.0	85.0	83.0	—	85.0
2B.....	97.7	95.8	96.3	96.0	96.7	—
2D.....	96.2	96.0	96.8	96.2	96.2	—
2E.....	92.3	91.0	91.7	93.3	—	85.0
3A.....	90.0	89.5	89.0	89.5	—	88.3
3B.....	87.0	87.5	86.5	87.5	—	87.0
3C.....	92.8	90.7	92.2	92.8	—	86.5
3D.....	93.8	91.5	91.3	91.8	—	90.0
3E.....	103.0	102.0	101.0	105.0	—	97.0
3J.....	100.0	100.0	98.0	97.5	—	93.5
4A.....	93.0	93.5	94.0	94.5	—	90.0

Table No. 42. Zones 1A to 2D (except 2A). In this area the differences in time of ripening were so slight as to be of no economic significance.

Zones 2A and 2E to 4B. **York** matured somewhat earlier than the other varieties. In most zones it was from one to four days earlier than the remaining four varieties. The minor differences among the remaining four varieties were not sufficient to be of any economic significance.

**Table No. 43—Average Height of Plants in Inches
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A.....	22.3	22.5	24.5	24.5	23.4	—
1B.....	25.5	26.3	29.0	30.5	26.8	—
1C.....	16.2	17.2	19.0	19.6	18.4	—
1D.....	24.6	25.0	27.0	28.6	25.9	—
2A.....	18.7	19.3	20.0	21.7	—	19.3
2B.....	27.8	27.3	29.7	29.0	26.5	—
2D.....	26.3	24.8	27.0	27.8	26.8	—
2E.....	28.7	28.7	29.7	31.0	—	27.3
3A.....	25.5	23.5	25.8	28.0	—	21.8
3B.....	36.0	34.5	38.5	35.0	—	33.0
3C.....	30.0	30.0	31.4	33.1	—	30.1
3D.....	32.3	32.7	34.0	35.0	—	31.3
3E.....	22.0	24.0	24.0	26.0	—	25.0
3G.....	25.0	24.0	30.0	30.0	—	25.0
3J.....	26.0	25.0	29.0	34.0	—	20.0
4A.....	36.5	37.5	40.5	41.0	—	35.5

Table No. 43. Zones 1A to 2D (except 2A). **Montcalm** exceeded the other varieties in height on an average basis in this area. It was followed by **Parkland**, **Vantage**, **Traill** and **Husky** in that order. This placing was maintained quite consistently throughout the different zones.

Zones 2A and 2E to 4B. In parts of this area barley straw tends to grow tall and rank and may lodge. For this reason shorter straw is often an advantage. As in the southern part of the province, **Montcalm** exceeded the other varieties in height on an average basis. **Parkland** was second tallest on an average basis, followed by **Husky**. **Traill** and **York** placed fourth and fifth respectively on an average basis.

**Table No. 44—Average Straw Strength of Plants
On the Basis 1 (Strong) to 9 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Traill	Parkland	Montcalm	Vantage	York
1A.....	2.7	2.8	2.8	3.0	2.6	—
1B.....	1.7	2.0	2.0	1.8	1.6	—
1C.....	3.1	2.9	3.0	3.0	2.6	—
1D.....	1.6	1.8	1.8	1.7	1.6	—
2A.....	2.3	1.0	1.2	1.5	—	1.3
2B.....	3.2	3.1	3.2	3.4	2.9	—
2D.....	2.6	2.6	2.6	2.5	2.5	—
2E.....	1.5	1.4	1.7	2.0	—	2.4
3A.....	2.3	2.8	1.8	3.1	—	2.6
3B.....	1.9	2.8	1.6	3.3	—	2.8
3C.....	1.6	1.8	1.6	1.9	—	2.4
3D.....	1.4	1.3	1.4	1.3	—	1.4
3E.....	1.5	1.0	2.0	2.3	—	4.0
3G.....	1.0	1.0	1.0	1.0	—	1.0
3J.....	2.5	2.0	2.8	3.0	—	3.0
4A.....	2.4	2.0	2.7	2.8	—	1.7

Table No. 44. Zones 1A to 2D (except 2A). No serious weakness of straw was evident in any of these zones. On an average basis, **Vantage** showed the greatest strength followed by **Husky**, and **Traill** in that order. **Parkland** and **Montcalm** showed equal straw strength on an average basis.

Zones 2A and 2E to 4B. **Traill** showed the greatest straw strength on an average basis in this area, followed by **Parkland** and **Husky** in that order. **Montcalm** placed fourth and **York**, placed fifth on an average basis.

**Table No. 45—Average Neck Strength of Plants
On the Basis 1 (Strong) to 3 (Weak)
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Trall	Parkland	Montcalm	Vantage	York
1A.....	2.0	2.3	2.2	2.2	1.7	—
1B.....	1.8	2.3	2.6	2.1	1.6	—
1C.....	2.0	2.1	2.3	2.1	1.4	—
1D.....	1.9	2.2	2.3	2.2	1.5	—
2A.....	1.3	1.7	1.4	1.4	—	1.8
2B.....	2.1	2.5	2.2	2.0	1.6	—
2D.....	1.7	2.0	2.2	1.8	1.8	—
2E.....	1.8	2.0	1.8	1.5	—	2.3
3A.....	1.9	2.3	1.9	1.9	—	2.5
3B.....	1.8	1.8	1.4	2.1	—	1.5
3C.....	1.6	1.7	1.8	1.5	—	1.8
3D.....	1.1	1.7	1.5	1.2	—	2.3
3E.....	1.0	1.3	1.3	1.5	—	3.0
3G.....	1.0	1.0	2.0	3.0	—	1.0
3J.....	1.3	1.3	2.0	2.0	—	1.7
4A.....	1.6	1.3	1.3	1.2	—	3.0

Table No. 45. Zones 1A to 2D (except 2A). In this area, **Vantage** showed the greatest neck strength of the five varieties tested. It placed first in five of the zones and tied for second place in the remaining zone. It was followed by **Husky**, **Montcalm**, **Trall**, and **Parkland** in that order.

Zones 2A and 2E to 4B. In this area, **Husky** showed the greatest neck strength on an average basis. **Trall** placed second and **Parkland** placed third on an average basis. **Montcalm** and **York** placed fourth and fifth respectively on an average basis although the placing of these two varieties varied somewhat from one zone to another.

**Table No. 46—Average Weight Per Measured Bushel
Summarized by Cereal Variety Zones**

Cereal Variety Zone	Husky	Trall	Parkland	Montcalm	Vantage	York
1A.....	46.4	48.3	48.2	47.8	46.2	—
1B.....	50.7	51.7	52.3	51.3	49.8	—
1C.....	39.3	42.2	42.3	41.8	41.0	—
1D.....	47.6	49.4	49.2	48.8	48.1	—
2A.....	44.3	47.0	46.5	45.3	—	51.0
2B.....	44.0	45.9	47.6	46.1	44.6	—
2D.....	46.0	47.7	48.0	47.3	46.7	—
2E.....	46.7	50.0	48.3	48.3	—	52.3
3A.....	44.6	46.0	46.2	45.6	—	47.4
3B.....	47.8	48.3	49.3	47.8	—	50.8
3C.....	45.9	46.5	48.1	47.3	—	51.1
3D.....	49.3	48.5	49.8	49.0	—	51.5
3E.....	48.3	48.3	51.3	49.0	—	49.7
3G.....	48.0	49.3	51.0	49.0	—	52.0
3J.....	50.0	48.7	51.3	49.7	—	52.3
4A.....	48.0	46.7	49.0	47.3	—	51.3

Table No. 46. Zones 1A to 2D (except 2A). **Parkland** outweighed the other four varieties in this area on an average basis. **Trall** and **Montcalm** placed second and third respectively on an average basis, with very little difference between them. **Vantage** placed fourth in four of these zones and fifth in two. **Husky** placed fourth in two zones and fifth in the remaining four.

Zones 2A and 2E to 4B. **York** showed high bushel weight in this area, placing first in nine of the ten zones. **Parkland** placed second on an average basis. **Trall**, **Montcalm** and **Husky** placed third, fourth and fifth respectively on an average basis.

**Table No. 47—Percentage of Commercial Grades by Varieties
(Zones 1A to 2D, except 2A)**

Variety	1 C.W. 6R %	2 C.W. 6R %	3 C.W. 6R %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	63.5	17.3	19.2
Trall.....	—	—	—	82.7	5.8	11.5
Parkland.....	26.9	23.1	15.4	13.5	11.5	9.6
Montcalm.....	27.0	17.3	19.2	7.7	17.3	11.5
Vantage.....	—	—	—	69.2	15.4	15.4

(Zones 2A and 2E to 4B)

Variety	1 C.W. 6R %	2 C.W. 6R %	3 C.W. 6R %	1 Feed %	2 Feed %	3 Feed %
Husky.....	—	—	—	65.0	25.0	10.0
Traill.....	—	—	—	85.0	10.0	5.0
Parkland.....	22.5	45.0	15.0	2.5	10.0	5.0
Montcalm.....	15.0	35.0	32.5	2.5	7.5	7.5
York.....	—	—	—	95.0	5.0	—

Table No. 47. Zones 1A to 2D (except 2A). It is not possible to make a direct comparison of these varieties since Parkland and Montcalm are eligible for the C.W. grades with the other three varieties eligible only for the feed grades. The two malting varieties in this area graded almost equally well, with a very narrow margin in favor of **Parkland**. Of the three feed varieties, **Traill** graded highest with nearly 83% of the samples classed as 1 Feed. **Vantage** and **Husky** were quite close with 69% and 63% of the samples respectively, grading 1 Feed.

Zones 2A and 2E to 4B. In this area, of the two malting varieties, there was a greater difference in favor of **Parkland**, since 22% of the samples of this variety graded 1 C.W. 6R, as compared with 15% in the case of **Montcalm**. As would be expected from the previous table on bushel weight, **York** graded well, with 95% of the samples classed as 1 Feed. **Traill** and **Husky** graded somewhat lower with 85% and 65% respectively, placing in the top Feed grade.



Kenneth Kenaschuk is shown kneeling between the rows of his barley test at Watson.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 48—Summarized Results for Zone 1A
(12 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	32.1	30.9	29.5	32.1	38.2
Days from seeding to ripening.....	94.9	94.7	93.7	94.1	95.1
Height of plants in inches.....	22.3	22.5	24.5	24.5	23.4
Straw strength (basis 1-strong to 9-weak).....	2.7	2.8	2.8	3.0	2.6
Neck strength (basis 1-strong, 2-medium, 3-weak).....	2.0	2.3	2.2	2.2	1.7
Bushel weight in pounds.....	46.4	48.3	48.2	47.8	46.2
Commercial grades in percentage:					
1 C.W. 6 R.....	—	—	30.8	38.4	—
2 C.W. 6 R.....	—	—	30.8	23.1	—
3 C.W. 6 R.....	—	—	7.7	15.4	—
1 Feed.....	69.2	84.6	—	—	76.9
2 Feed.....	15.4	7.7	23.0	7.7	7.7
3 Feed.....	15.4	7.7	7.7	15.4	15.4

*Necessary difference—1.82 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Vantage outyielded the other varieties tested in this zone in 1958. It placed either first or second in each of the previous three years as well. It is well adapted to this area and is officially recommended for the zone.

Husky and **Montcalm** tied for second place in this zone in 1958. Husky has yielded well in Wheat Pool tests in this zone for several years. However, it has short straw and some tendency to shatter and is not officially recommended. **Montcalm** has not been tested by the Wheat Pool in this zone for a number of years. It is not officially recommended.

Trall and **Parkland** were outyielded by the other three varieties tested in 1958. Neither of these varieties produced outstanding results in previous tests by the Wheat Pool in this zone. Neither variety is officially recommended.

Table No. 49—Summarized Results for Zone 1B
(6 successful tests)

	Husky	Trall	Parkland	Montcalm	Vantage
Yield in bushels per acre*	44.8	42.7	40.1	43.7	55.5
Days from seeding to ripening	86.0	84.7	85.7	84.7	84.0
Height of plants in inches	25.5	26.3	29.0	30.5	26.8
Straw strength (basis 1-strong to 9-weak)	1.7	2.0	2.0	1.8	1.6
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.8	2.3	2.6	2.1	1.6
Bushel weight in pounds	50.7	51.7	52.3	51.3	49.8
Commercial grades in percentage:					
1 C.W. 6 R.	—	—	100.0	83.4	—
2 C.W. 6 R.	—	—	—	16.6	—
1 Feed	100.0	100.0	—	—	100.0

*Necessary difference—2.88 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Vantage outyielded the other four varieties tested in this zone in 1958. It placed first in two of the three previous years as well. **Vantage** is well adapted to this area and is officially recommended.

Husky placed second in this zone in 1958. It was substantially lower in yield than **Vantage**. **Husky** has some tendency to shatter and has rather short straw for this zone. It is not officially recommended.

Montcalm placed third in yield in this zone in 1958. It has not been tested in this zone by the Wheat Pool for a number of years. It is not particularly adapted to this area and is not officially recommended.

Trall placed fourth in this zone in each of the past two years. It is not recommended.

Parkland was outyielded by the other four varieties tested in this zone in 1958. It placed third in 1955, fifth in 1956 and second in 1957. **Parkland** is not recommended for the zone.

In addition to **Vantage**, **Compana** is also officially recommended for this zone.

Table No. 50—Summarized Results for Zone 1C
(6 successful tests)

	Husky	Trall	Parkland	Montcalm	Vantage
Yield in bushels per acre*	21.4	24.1	25.0	23.5	27.6
Days from seeding to ripening	97.3	96.8	95.5	95.8	95.0
Height of plants in inches	16.2	17.2	19.0	19.6	18.4
Straw strength (basis 1-strong to 9-weak)	3.1	2.9	3.0	3.0	2.6
Neck strength (basis 1-strong, 2-medium, 3-weak)	2.0	2.1	2.3	2.1	1.4
Bushel weight in pounds	39.3	42.2	42.3	41.8	41.0
Commercial grades in percentage:					
3 C.W. 6 R.	—	—	16.7	16.7	—
1 Feed	—	33.3	—	—	16.7
2 Feed	16.6	66.7	50.0	50.0	16.7
3 Feed	83.4	—	33.3	33.3	66.6

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Vantage outyielded the other varieties tested in this zone in each of the past four years. It has performed consistently well in other tests in this zone as well and is officially recommended.

Parkland placed second in this zone in 1958. It placed fifth in each of the two previous years and tied for second place in 1955. It is not officially recommended.

Trail placed third in 1958 and fourth in 1957. It does not appear particularly adapted to this area. It is not recommended.

Montcalm placed fourth in this zone in 1958. It has not been previously tested in this zone by the Wheat Pool. In other tests in this area it has not yielded well and it is not recommended.

Husky was outyielded by the other four varieties tested in this zone in 1958. It yielded reasonably well in several previous years but due to some tendency to shatter, and also to its short straw, it is not officially recommended for this zone.

In addition to Vantage, Compana is also officially recommended for this zone.

Table No. 51—Summarized Results for Zone 1D
(7 successful tests)

	Husky	Trail	Parkland	Montcalm	Vantage
Yield in bushels per acre*	40.2	41.0	34.5	42.0	47.4
Days from seeding to ripening.....	89.8	90.2	89.3	89.5	90.3
Height of plants in inches.....	24.6	25.0	27.0	28.6	25.9
Straw strength (basis 1-strong to 9-weak)	1.6	1.8	1.8	1.7	1.6
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.9	2.2	2.3	2.2	1.5
Bushel weight in pounds.....	47.6	49.4	49.2	48.8	48.1
Commercial grades in percentage: 1 C.W. 6 R.....	—	—	33.4	33.4	—
2 C.W. 6 R.....	—	—	22.2	22.2	—
1 Feed.....	88.9	88.9	22.2	22.2	77.8
2 Feed.....	11.1	11.1	22.2	22.2	22.2

*Necessary difference—2.39 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Vantage outyielded the other four varieties tested in this zone in 1958. It placed first in 1955, third in 1956 and second in 1957. Vantage is officially recommended for the zone.



Etta Moen took a keen interest in her barley test in spite of the lack of moisture during the summer.

Montcalm placed second in this zone in 1958, but was substantially lower in yield than Vantage. It has not produced outstanding results in other tests in this zone and is not recommended.

Traill ranked third in yield in this zone in 1958. During the previous year it placed fourth. It is not recommended for the zone.

Husky placed fourth in this zone in 1956 and 1958. However, it was the highest yielding variety in 1957 and placed second in 1955. It has yielded well in other tests in the zone and is officially recommended.

Parkland was the lowest yielding variety in this zone during each of the last three years. It is not officially recommended for this zone.

Table No. 52—Summarized Results for Zone 2A
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	24.1	26.7	24.5	27.6	21.1
Days from seeding to ripening.....	84.0	86.0	85.0	83.0	85.0
Height in plants in inches.....	18.7	19.3	20.0	21.7	19.3
Straw strength (basis 1-strong to 9-weak)	2.3	1.0	1.2	1.5	1.3
Neck strength (basis 1-strong, 2-medium, 3-weak).....	1.3	1.7	1.4	1.4	1.8
Bushel weight in pounds.....	44.3	47.0	46.5	45.3	51.0
Commercial grades in percentage: 2 C.W. 6 R.....	—	—	75.0	—	—
3 C.W. 6 R.....	—	—	—	75.0	—
1 Feed.....	50.0	75.0	—	—	100.0
2 Feed.....	25.0	25.0	—	—	—
3 Feed.....	25.0	—	25.0	25.0	—

*Necessary difference—3.19 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Montcalm placed first in yield in this zone in 1958. However, during the previous year it placed fifth and in 1956 it placed second. It has not produced outstanding results in other tests in this zone and is not officially recommended.

Traill placed second in this zone in each of the last two years. It appears to have some promise in this area, but requires further testing.

Parkland placed third in this zone in 1958. In Wheat Pool tests during the previous three years it has given variable yield results. In other tests it has not yielded particularly well and it is not officially recommended.

Husky placed fourth in yield in this zone in 1958. It placed second in 1955 and first in 1956 and 1957. It has yielded well in other tests in the zone and is officially recommended.

York was outyielded by the other four varieties in its first year of testing by the Wheat Pool.

In addition to Husky, Vantage and Vantmore are officially recommended for this zone.

Table No. 53—Summarized Results for Zone 2B
(6 successful tests)

	Husky	Traill	Parkland	Montcalm	Vantage
Yield in bushels per acre*	45.6	43.5	42.5	47.6	48.2
Days from seeding to ripening.....	97.7	95.8	96.3	96.0	96.7
Height of plants in inches.....	27.8	27.3	29.7	29.0	26.5
Straw strength (basis 1-strong to 9-weak)	3.2	3.1	3.2	3.4	2.9
Neck strength (basis 1-strong, 2-medium, 3-weak).....	2.1	2.5	2.2	2.0	1.6
Bushel weight in pounds.....	44.0	45.9	47.6	46.1	44.6
Commercial grades in percentage: 1 C.W. 6 R.....	—	—	12.5	12.5	—
2 C.W. 6 R.....	—	—	25.0	—	—
3 C.W. 6 R.....	—	—	25.0	37.5	—
1 Feed.....	62.5	87.5	12.5	12.5	50.0
2 Feed.....	12.5	—	—	12.5	25.0
3 Feed.....	25.0	12.5	25.0	25.0	25.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Vantage outyielded the other four varieties tested in this zone in 1958. It placed second in each of the two previous years and third in 1955. It is well adapted to the area and is officially recommended.

Montcalm placed second in this zone in 1958. However, although it outyielded Parkland this year, it is susceptible to rust and has weaker straw than Parkland. For these reasons it is not recommended for this zone.

Husky ranked third in yield in this zone in 1958. However, it placed first in yield in each of the three previous years. It has performed well in other tests in this zone as well and is officially recommended.

Trail placed fourth in 1958 and third in 1957 in this zone. It does not appear particularly adapted to this zone but should be tested further to obtain an accurate indication of its potential.

Parkland ranked fifth in this zone in 1958. It placed somewhat better during three previous years testing by the Wheat Pool. Because it has greater rust resistance and greater straw strength than Montcalm, it is officially recommended for this zone.

Cereal Variety Zone 2C

No successful barley tests were conducted in this zone in 1958. Vantage is the only variety officially recommended for the zone.

Table No. 54—Summarized Results for Zone 2D
(9 successful tests)

	Husky	Trail	Parkland	Montcalm	Vantage
Yield in bushels per acre*	38.2	35.2	33.1	37.1	41.0
Days from seeding to ripening	96.2	96.0	96.8	96.2	96.2
Height of plants in inches	26.3	24.8	27.0	27.8	26.8
Straw strength (basis 1-strong to 9-weak)	2.6	2.6	2.6	2.5	2.5
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.7	2.0	2.2	1.8	1.8
Bushel weight in pounds	46.0	47.7	48.0	47.3	46.7
Commercial grades in percentage:					
2 C.W. 6 R...	—	—	40.0	30.0	—
3 C.W. 6 R...	—	—	40.0	40.0	—
1 Feed	50.0	90.0	10.0	10.0	80.0
2 Feed	40.0	10.0	10.0	20.0	20.0
3 Feed	10.0	—	—	—	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Vantage outyielded the other four varieties tested in this zone in 1958. It placed second in each of the two previous years and third in 1955. Vantage is well adapted to the area and is officially recommended.

Husky ranked second in this zone in 1958. It placed second in 1955 and first in both 1956 and 1957. It is officially recommended for the zone.

Montcalm ranked third in this zone in 1958. It has not been tested previously in this area by the Wheat Pool but in other tests it has been outyielded by Parkland. It is not officially recommended.

Trail placed fourth in this zone in both 1957 and 1958. It is not recommended for the zone.

Parkland placed fifth in yield in this zone in 1958. It produced rather erratic results during several years in which it was tested by the Wheat Pool, placing first in one year, third in one year and fifth in another. However, in other tests it has yielded well and it is officially recommended.

In addition to the recommended varieties mentioned above, Hannchen is also officially recommended for this zone.

Cereal Variety Zone 2E

Only one successful barley test was located in this zone in 1958. It was conducted by Ronald Sanderson of Avonlea and can be found in the section

"Individual Summarized Results of all Tests—Barley" on page 69. Vantage and Vantmore are officially recommended for this zone.

Table No. 55—Summarized Results for Zone 3A
(3 successful tests)

	Husky	Trail	Parkland	Montcalm	York
Yield in bushels per acre*	30.6	31.4	32.4	31.4	31.0
Days from seeding to ripening	90.0	89.5	89.0	89.5	88.3
Height of plants in inches	25.5	23.5	25.8	28.0	21.8
Straw strength (basis 1-strong to 9-weak)	2.3	2.8	1.8	3.1	2.6
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.9	2.3	1.9	1.9	2.5
Bushel weight in pounds	44.6	46.0	46.2	45.6	47.4
Commercial grades in percentage:					
2 C.W. 6 R.	—	—	20.0	20.0	—
3 C.W. 6 R.	—	—	40.0	40.0	—
1 Feed.	20.0	60.0	—	—	80.0
2 Feed.	60.0	20.0	40.0	20.0	20.0
3 Feed.	20.0	20.0	—	20.0	—

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

The yield differences among the varieties tested in this zone in 1958 were only slight and in no case were these differences significant. The varieties officially recommended for this zone are Husky, Parkland, Vantage and Vantmore.



Richard Pikula is shown standing between the rows of his barley test.

Table No. 56—Summarized Results for Zone 3B
(4 successful tests)

	Husky	Trail	Parkland	Montcalm	York
Yield in bushels per acre*	71.1	68.8	63.1	66.9	69.5
Days from seeding to ripening	87.0	87.5	86.5	87.5	87.0
Height of plants in inches	36.0	34.5	38.5	35.0	33.0
Straw strength (basis 1-strong to 9-weak)	1.9	2.8	1.6	3.3	2.8
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.8	1.8	1.4	2.1	1.5
Bushel weight in pounds	47.8	48.3	49.3	47.8	50.8
Commercial grades in percentage:					
1 C.W. 6 R.	—	—	75.0	50.0	—
2 C.W. 6 R.	—	—	—	25.0	—
1 Feed.	75.0	75.0	—	—	100.0
2 Feed.	25.0	25.0	25.0	25.0	—

*Necessary difference—4.26 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Husky outyielded the other varieties tested in this zone in 1958. It also placed first in each of the two previous years and placed second in 1955. It is well adapted to the area and is officially recommended.

York placed second in this zone in its first year of testing by the Wheat Pool. It appears to have some adaptation in this area but requires further testing before an accurate recommendation can be made.

Traill placed third in this zone in 1958. It placed second in 1957. It appears to have some adaptation to this area but has not yet been tested sufficiently for an accurate recommendation to be made.

Montcalm ranked fourth in this zone in 1958. It placed third in 1956 and fifth in 1957. It is not recommended for this zone.

Parkland ranked fifth in yield in this zone in 1958. However it performed better in previous years, placing first in 1955, second in 1956 and third in 1957. Because it has greater rust resistance and greater straw strength than Montcalm it is officially recommended.

In addition to the recommended varieties mentioned above, Vantage and Vantmore are also officially recommended.

Table No. 57—Summarized Results for Zone 3C
(5 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	53.6	49.1	45.0	53.6	50.4
Days from seeding to ripening	92.8	90.7	92.2	92.8	86.5
Height of plants in inches	30.0	30.0	31.4	33.1	30.1
Straw strength (basis 1-strong to 9-weak)	1.6	1.8	1.6	1.9	2.4
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.6	1.7	1.8	1.5	1.8
Bushel weight in pounds	45.9	46.5	48.1	47.3	51.1
Commercial grades in percentage: 1 C.W. 6 R.	—	—	25.0	25.0	—
2 C.W. 6 R.	—	—	25.0	—	—
3 C.W. 6 R.	—	—	25.0	50.0	—
1 Feed	50.0	87.5	12.5	12.5	100.0
2 Feed	37.5	—	—	—	—
3 Feed	12.5	12.5	12.5	12.5	—

*Necessary difference—3.90 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Husky and **Montcalm** tied for first place in this zone in 1958. Husky has yielded well in this zone for a number of years, placing first in 1957 and second in both 1955 and 1956. It is officially recommended for the zone. **Montcalm** placed first in 1956 and fourth in 1957. Because it is more rust susceptible than Parkland and has weaker straw, it is not recommended for this zone.

York yielded quite well in this zone in its first year of testing by the Wheat Pool. It appears to have some adaptation in this part of the province but requires further testing.

Traill has yielded quite well in this zone during two years of testing by the Wheat Pool. It appears to have some adaptation in this area of the province but requires further testing before an accurate recommendation can be made.

Parkland was outyielded by the other four varieties tested in this zone in 1958. Its performance during three previous years testing was quite variable. It has greater rust resistance and straw strength than Montcalm and so is recommended for this zone.

In addition to the recommended varieties mentioned above, Vantage is also officially recommended for this zone.

Table No. 58—Summarized Results for Zone 3D
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	68.3	60.2	56.4	60.7	59.3
Days from seeding to ripening	93.8	91.5	91.3	91.8	90.0
Height of plants in inches	32.3	32.7	34.0	35.0	31.3
Straw strength (basis 1-strong to 9-weak)	1.4	1.3	1.4	1.3	1.4
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.1	1.7	1.5	1.2	2.3
Bushel weight in pounds	49.3	48.5	49.8	49.0	51.5
Commercial grades in percentage: 2 C.W. 6 R.	—	—	100.0	100.0	—
1 Feed	100.0	100.0	—	—	100.0

*Necessary difference—4.61 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Husky outyielded the other four varieties tested in this zone in 1958. It yielded well in the previous three years also, placing first in one year, second in one and third in one. Husky is officially recommended for the zone.

Montcalm placed second in this zone in 1958. It placed second in 1956 and fourth in 1957. It has weaker straw and less rust resistance than Parkland so it is not recommended for this zone.

Traill placed third in this zone in 1958 and second in 1957. It appears to have some adaptation to this area but has not been tested sufficiently for an accurate recommendation to be made.

York placed fourth in this zone in its first year of testing by the Wheat Pool.

Parkland was outyielded by the other four varieties tested in this zone in 1958. However, it yielded better in several previous years, placing first in 1955 and 1956 and third in 1957. It is officially recommended for this zone.

In addition to the recommended varieties mentioned above, **Hannchen** is also officially recommended.

Table No. 59—Summarized Results for Zone 3E
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	44.4	38.2	35.0	41.2	41.9
Days from seeding to ripening	103.0	102.0	101.0	105.0	97.0
Height of plants in inches	22.0	24.0	24.0	26.0	25.0
Straw strength (basis 1-strong to 9-weak)	1.5	1.0	2.0	2.3	4.0
Neck Strength (basis 1-strong, 2-medium, 3-weak)	1.0	1.3	1.3	1.5	3.0
Bushel weight in pounds	48.3	48.3	51.3	49.0	49.7
Commercial grades in percentage:					
1 C.W. 6 R.	—	—	33.3	—	—
2 C.W. 6 R.	—	—	66.7	66.7	—
3 C.W. 6 R.	—	—	—	33.3	—
1 Feed	100.0	100.0	—	—	66.7
2 Feed	—	—	—	—	33.3

*Necessary difference—3.78 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Husky outyielded the other four varieties tested in this zone in 1958. It placed first in 1955 and 1957 and second in 1956. Husky is well adapted to this area and is officially recommended.

York ranked second in this zone in its first year of testing by the Wheat Pool. It has not been tested sufficiently for an accurate recommendation to be made.

Montcalm placed third in this zone in 1958. It placed first in 1956 and fifth in 1957. This variety has yielded well in other tests in this zone and it is officially recommended.

Traill ranked fourth in yield in this zone in 1958 and third in the previous year. It does not appear particularly adapted to the area and is not recommended.

Parkland placed fifth in yield in this zone in 1958. However, in several previous years' tests it yielded well, placing second in 1957 and third in 1955 and 1956. It has yielded well in other tests in this zone and is officially recommended.

Cereal Variety Zone 3F

Only one successful test was located in this zone in 1958. It was conducted by Robert Jackson of Sylvania and can be found in the section "Individual Summarized Results of all Tests—Barley" on page 74. The recommended varieties for this zone are Hannchen, Husky, Montcalm and Parkland.

Table No. 60—Summarized Results for Zone 3G

(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	45.0	39.7	32.1	36.5	33.2
Days from seeding to ripening	—	—	—	—	—
Height of plants in inches	25.0	24.0	30.0	30.0	25.0
Straw strength (basis 1-strong to 9-weak)	1.0	1.0	1.0	1.0	1.0
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.0	1.0	2.0	3.0	1.0
Bushel weight in pounds	48.0	49.3	51.0	49.0	52.0
Commercial grades in percentage:					
1 C.W. 6 R....	—	—	33.3	33.3	—
2 C.W. 6 R....	—	—	33.3	33.3	—
3 C.W. 6 R....	—	—	33.4	—	—
1 Feed.....	66.7	66.7	—	—	100.0
2 Feed.....	—	33.3	—	33.4	—
3 Feed.....	33.3	—	—	—	—

*Necessary difference—3.02 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Husky substantially outyielded the other four varieties tested in this zone in 1958. It placed either first or second in each of the previous three years as well. Husky is well adapted to this area and it is officially recommended.

Traill placed second in this zone in 1958. It placed third in the previous year. This variety appears to be adapted to this zone but further testing is required before a recommendation can be made.

Montcalm placed third in this zone in 1958. It placed third in 1956 and fourth in 1957. It is not recommended for this zone.

York placed fourth in this zone in its first year of testing by the Wheat Pool. It does not appear particularly adapted to the area.

Parkland was outyielded by the other four varieties tested in this zone in 1958. However, it performed somewhat better in several previous years. It has performed well in other tests in this zone and is officially recommended.

Cereal Variety Zone 3H

Only one successful barley test was located in this zone in 1958. It was conducted by Ralph Kyle of Dorintosh and can be found in the section "Individual Summarized Results of all Tests—Barley" on page 75. Husky and Parkland are officially recommended for the zone.

Table No. 61—Summarized Results for Zone 3J

(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	97.0	81.5	78.3	84.5	73.5
Days from seeding to ripening	100.0	100.0	98.0	97.5	93.5
Height of plants in inches	26.0	25.0	29.0	34.0	20.0
Straw strength (basis 1-strong to 9-weak)	2.5	2.0	2.8	3.0	3.0
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.3	1.3	2.0	2.0	1.7
Bushel weight in pounds	50.0	48.7	51.3	49.7	52.3
Commercial grades in percentage:					
1 C.W. 6 R....	—	—	33.3	—	—
2 C.W. 6 R....	—	—	33.3	66.7	—
3 C.W. 6 R....	—	—	33.4	33.3	—
1 Feed.....	100.0	100.0	—	—	100.0

*Necessary difference—8.51 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3J

Husky outyielded the other four varieties tested in this zone by a substantial margin in 1958. It placed either first or second in each of the three previous years. Husky is well adapted to this zone and is officially recommended.

Montcalm ranked second in yield in this zone in 1958. It placed first in 1956 and fifth in 1957. It has yielded well in other tests in this area and is officially recommended.

Traill ranked third in each of the last two years in this zone. It appears to have some adaptation to this area but further testing is required before an accurate recommendation can be made.

Parkland placed fourth in yield in this zone in 1958. It ranked fourth in 1956, but placed second in both 1955 and 1957. It has yielded well in other tests in the zone and is officially recommended.

York was outyielded by the other four varieties in its first year of testing by the Wheat pool.

Table No. 62—Summarized Results for Zone 4A
(3 successful tests)

	Husky	Traill	Parkland	Montcalm	York
Yield in bushels per acre*	66.6	66.5	61.7	69.6	69.2
Days from seeding to ripening	93.0	93.5	94.0	94.5	90.0
Height of plants in inches	36.5	37.5	40.5	41.0	35.5
Straw strength (basis 1-strong to 9-weak)	2.4	2.0	2.7	2.8	1.7
Neck strength (basis 1-strong, 2-medium, 3-weak)	1.6	1.3	1.3	1.2	3.0
Bushel weight in pounds	48.0	46.7	49.0	47.3	51.3
Commercial grades in percentage: 2 C.W. 6 R.	—	—	100.0	66.7	—
3 C.W. 6 R.	—	—	—	33.3	—
1 Feed	100.0	100.0	—	—	100.0

*Yield differences not significant.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Montcalm placed first in yield in this zone in 1958. It placed fourth in 1956 and fifth in 1957. It has not produced outstanding results in other tests in this zone, and for this reason as well as its lack of straw strength, it is not recommended.

York placed second in this zone in its first year of testing by the Wheat Pool. It may have some adaptation to this area but has not been tested sufficiently for an accurate recommendation to be made.

Husky placed third in this zone in 1958. It placed first in yield in this zone during each of the previous two years. Husky is officially recommended for the zone.

Traill placed fourth in this zone in 1958. It placed second in the previous year. Considering this variable performance it is difficult to accurately assess its adaptability without further testing. It is not recommended for this zone.

Parkland ranked fifth in yield in this zone in 1958. It has yielded somewhat better in other tests in this zone, and since it has stronger straw than Montcalm it is officially recommended for this zone.

Cereal Variety Zone 4B

Only one successful barley test was located in this zone in 1958. It was conducted by Ernest Hannis of Frenchman Butte and can be found in the section "Individual Summarized Results of all Tests—Barley" on page 75. Husky and Parkland are officially recommended for the zone.

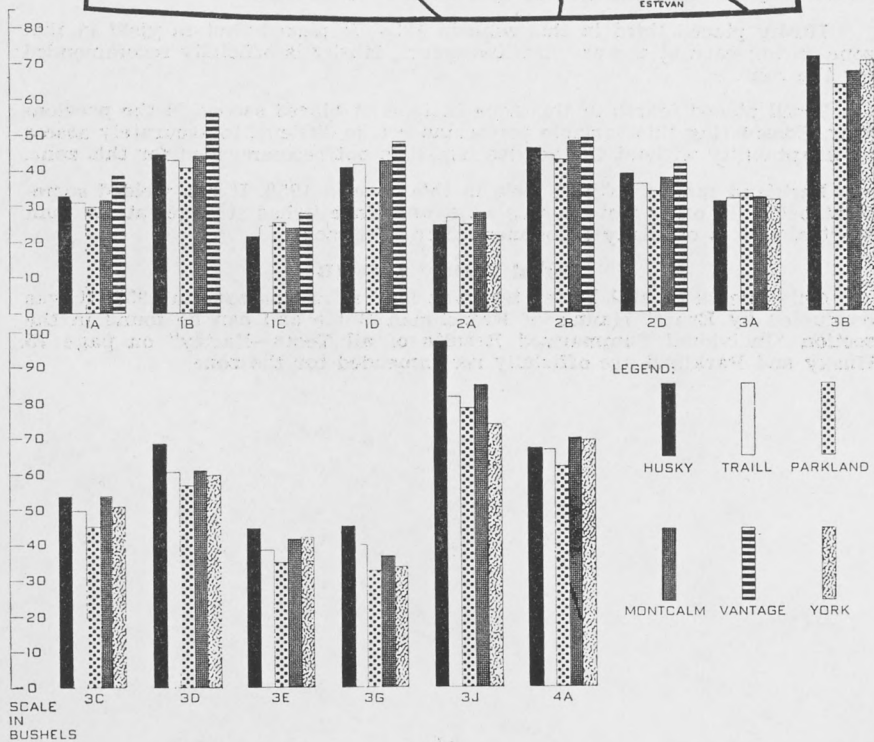
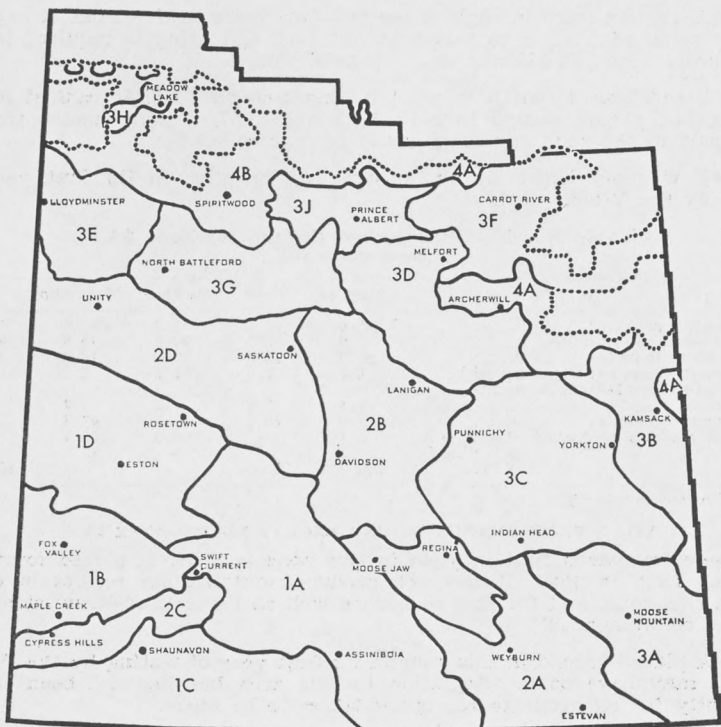


Table No. 63

Individual Summarized Results of All Tests—Barley

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 7, headed, "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 8.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
NORMAN G. LUMB, ALIDA											
3A.....	1	2	Husky.....	22.6	81	16	3.0	1.8	49	1 Fd.	—
			Traill.....	23.4	82	14	2.0	2.0	50	1 Fd.	—
			Parkland.....	24.7	81	17	2.0	1.5	51	2 C.W. 6 R.	G.
			Montcalm.....	19.3	82	20	1.3	1.8	50	2 C.W. 6 R.	G.
			York.....	21.6	82	13	4.3	2.8	51	1 Fd.	—
Yield differences not significant. Rainfall—May to August 2.10 inches.											
DONALD TWIETMEYER, OXBOW											
3A.....	1	3	Husky.....	—	—	—	—	—	44	2 Fd.	—
			Traill.....	—	—	—	—	—	44	2 Fd.	—
			Parkland.....	—	—	—	—	—	44	2 Fd.	—
			Montcalm.....	—	—	—	—	—	45	2 Fd.	—
			York.....	—	—	—	—	—	44	2 Fd.	—
Samples bulked—yields not reliable. Rainfall record incomplete.											
IRVIN H. BLACKBURN, ESTEVAN											
2A.....	1	5	Husky.....	28.7	—	25	—	—	46	1 Fd.	—
			Traill.....	28.3	—	23	—	—	48	1 Fd.	—
			Parkland.....	25.9	—	25	—	—	48	2 C.W. 6 R.	—
			Montcalm.....	32.4	—	27	—	—	47	3 C.W. 6 R.	—
			York.....	15.0	—	23	—	—	51	1 Fd.	—
Necessary difference—7.37 bushels. Rainfall record incomplete.											
DONALD E. RICHARDSON, STOUGHTON											
2A.....	1	9	Husky.....	22.9	84	16	1.5	1.5	42	3 Fd.	—
			Traill.....	25.8	86	18	1.0	2.3	43	2 Fd.	—
			Parkland.....	22.5	85	18	1.3	1.5	42	3 Fd.	—
			Montcalm.....	25.3	83	20	1.0	1.5	41	3 Fd.	—
			York.....	21.5	85	18	1.5	1.5	48	1 Fd.	—
Yield differences not significant. Rainfall—May to August 3.52 inches.											
MAURICE G. QUENNELLE, WAUCHOPE											
3A.....	1	10	Husky.....	19.2	93	30	1.8	1.8	45	2 Fd.	—
			Traill.....	25.0	94	27	3.3	1.8	48	1 Fd.	—
			Parkland.....	12.9	94	28	1.3	2.3	46	3 C.W. 6 R.	—
			Montcalm.....	14.4	94	31	5.0	1.8	47	3 C.W. 6 R.	—
			York.....	14.0	94	27	2.5	1.8	46	1 Fd.	—
Test damaged by shattering—yields not included in zone summary. Rainfall—May to August 4.47 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
2A.....	1	6	Wayne A. Collins, Outram.								
2A.....	1	8	Jim F. Watts, Weyburn.								

WHEAT POOL DISTRICT 2

HAROLD E. OLSON, BROOKING											
2A.....	2	1	Husky.....	20.7	—	15	3.0	1.0	43	2 Fd.	—
			Traill.....	26.0	—	17	1.0	1.0	48	1 Fd.	—
			Parkland.....	25.2	—	17	1.0	1.3	48	2 C.W. 6 R.	—
			Montcalm.....	25.2	—	18	2.0	1.3	46	3 C.W. 6 R.	—
			York.....	26.7	—	17	1.0	2.0	53	1 Fd.	—
Yield differences not significant. Rainfall—May to August 3.23 inches.											
SHIRLEY FETTES, GLADMAR											
1A.....	2	2	Husky.....	18.9	—	24	9.0	2.0	46	1 Fd.	—
			Traill.....	15.8	—	23	9.0	2.0	47	1 Fd.	—
			Parkland.....	16.8	—	24	9.0	2.0	44	2 Fd.	—
			Montcalm.....	20.2	—	24	9.0	2.0	47	3 C.W. 6 R.	—
			Vantage.....	19.4	—	24	9.0	2.0	44	2 Fd.	—
Yield differences not significant. Rainfall record incomplete.											

Wheat Pool District 2—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mer-cial grades	Grading remarks
ERNEST P. ANDERSON, BIG BEAVER											
1A.....	2	3	Husky.....	34.2	—	20	1.5	1.8	45	2 Fd.	—
			Trail.....	35.4	—	20	1.8	1.3	49	1 Fd.	—
			Parkland.....	36.2	—	21	1.8	2.3	49	2 C.W. 6 R.	—
			Montcalm.....	37.5	—	21	2.3	2.0	48	2 C.W. 6 R.	—
			Vantage.....	40.1	—	21	2.3	1.3	46	1 Fd.	—
Yield differences not significant. Rainfall—May to August 2.70 inches.											
LEO PREFONTAINE, LISIEUX											
1A.....	2	4	Husky.....	36.2	114	28	2.5	1.5	48	1 Fd.	—
			Trail.....	26.8	113	28	2.0	1.5	49	1 Fd.	—
			Parkland.....	28.2	113	29	2.0	1.8	51	1 C.W. 6 R.	—
			Montcalm.....	31.1	113	28	1.8	1.5	50	1 C.W. 6 R.	—
			Vantage.....	34.3	113	28	2.0	1.0	46	1 Fd.	—
Necessary difference—5.62 bushels. Rainfall—May to August 2.36 inches.											
ETTA L. MOEN, STRATHALLEN											
1C.....	2	5	Husky.....	9.6	82	15	1.0	1.3	33	3 Fd.	—
			Trail.....	12.0	82	17	1.8	2.3	37	3 Fd.	—
			Parkland.....	13.0	80	18	2.8	2.3	34	3 Fd.	—
			Montcalm.....	12.8	81	20	1.3	1.5	34	3 Fd.	—
			Vantage.....	16.1	75	19	2.0	1.3	36	3 Fd.	—
Necessary difference—3.50 bushels. Rainfall—May to August 4.31 inches.											
DWIGHT D. OLLENBERGER, WOODROW											
1A.....	2	6	Husky.....	13.3	89	27	2.0	1.0	46	1 Fd.	—
			Trail.....	21.8	91	33	2.0	1.0	49	1 Fd.	—
			Parkland.....	15.8	86	36	2.0	1.3	47	3 C.W. 6 R.	—
			Montcalm.....	15.8	90	27	2.0	1.5	46	3 C.W. 6 R.	—
			Vantage.....	21.6	93	32	2.0	1.3	46	1 Fd.	—
Necessary difference—6.10 bushels. Rainfall record incomplete.											
JAMES O. POWRIE, ASSINIBOIA											
1C.....	2	7	Husky.....	24.9	—	—	—	—	42	3 Fd.	—
			Trail.....	27.0	—	—	—	—	48	1 Fd.	—
			Parkland.....	25.3	—	—	—	—	48	3 C.W. 6 R.	W.
			Montcalm.....	26.6	—	—	—	—	46	3 C.W. 6 R.	—
			Vantage.....	29.3	—	—	—	—	46	1 Fd.	—
Yield differences not significant. Rainfall record incomplete.											
ALVERY C. BIRCHARD, VERWOOD											
1A.....	2	8	Husky.....	30.0	94	28	1.0	2.0	35	3 Fd.	—
			Trail.....	29.9	94	27	1.0	2.8	38	3 Fd.	—
			Parkland.....	27.8	94	28	1.0	2.5	39	3 Fd.	—
			Montcalm.....	30.0	94	29	1.0	2.3	38	3 Fd.	—
			Vantage.....	37.5	91	29	1.0	1.0	38	3 Fd.	—
Yield differences not significant. Rainfall—May to August 4.29 inches.											
DENNIS E. WEBSTER, TROSSACHS											
2A.....	2	10	Husky.....	9.2	—	—	—	—	46	1 Fd.	—
			Trail.....	8.8	—	—	—	—	49	1 Fd.	—
			Parkland.....	8.5	—	—	—	—	48	2 C.W. 6 R.	—
			Montcalm.....	7.4	—	—	—	—	47	3 C.W. 6 R.	—
			York.....	12.4	—	—	—	—	52	1 Fd.	—
Samples incomplete—yields not included in zone summary. Rainfall record incomplete.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
1A.....	2	9	Thomas C. Krogsgaard Jr., Bures.								

WHEAT POOL DISTRICT 3

PEGGY HARDWICK, FRONTIER											
1C.....	3	4	Husky.....	11.4	96	16	1.0	2.0	41	3 Fd.	—
			Trail.....	13.9	96	16	1.0	2.0	41	3 Fd.	—
			Parkland.....	14.0	96	17	1.0	2.0	43	2 Fd.	—
			Montcalm.....	10.7	96	16	1.0	2.0	39	3 Fd.	—
			Vantage.....	14.8	96	17	1.0	1.0	39	3 Fd.	—
Yield differences not significant. Rainfall record incomplete.											
KENNETH B. GORDON, EASTEND											
1C.....	3	6	Husky.....	32.2	108	22	4.8	2.5	39	3 Fd.	—
			Trail.....	39.8	106	23	2.3	2.0	42	3 Fd.	—
			Parkland.....	38.4	106	26	2.0	3.0	41	3 Fd.	—
			Montcalm.....	37.4	106	27	3.5	2.8	43	2 Fd.	—
			Vantage.....	44.3	106	23	1.0	1.0	41	3 Fd.	—
Yield differences not significant. Rainfall—May to August 4.10 inches.											

Wheat Pool District 3—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
WAYNE G. LEWIS, EASTEND											
1C.....	3	7	Husky.....	12.0	—	8	6.5	2.3	43	2 Fd.	—
			Trail.....	13.7	—	10	7.5	2.0	46	1 Fd.	—
			Parkland....	12.4	—	9	7.0	2.3	45	2 Fd.	—
			Montcalm....	14.5	—	10	7.0	2.3	45	2 Fd.	—
			Vantage.....	15.5	—	10	6.8	1.8	44	2 Fd.	—
Yield differences not significant. Rainfall—May to August 2.46 inches.											
BRENDA M. WILLIAMSON, SCOTSGUARD											
1C.....	3	8	Husky.....	38.2	103	20	2.0	2.0	38	3 Fd.	—
			Trail.....	38.4	103	20	2.0	2.0	39	3 Fd.	—
			Parkland....	46.6	100	25	2.0	2.0	43	2 Fd.	—
			Montcalm....	38.9	100	25	2.0	2.0	44	2 Fd.	—
			Vantage.....	45.8	103	23	2.0	2.0	40	3 Fd.	—
Yield differences not significant. Rainfall—May to August 1.80 inches.											
JOHN C. KEELER, ANEROID											
1A.....	3	10	Husky.....	26.3	94	22	1.3	2.5	41	3 Fd.	—
			Trail.....	29.5	90	21	1.3	3.0	43	2 Fd.	—
			Parkland....	28.0	82	24	1.0	3.0	43	2 Fd.	—
			Montcalm....	31.0	86	25	1.5	3.0	42	3 Fd.	—
			Vantage.....	36.3	91	23	1.3	1.3	42	3 Fd.	—
Necessary difference—3.21 bushels. Rainfall—May to August 5.31 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
1C.....	3	2	John W. Dukat, Rosefield.								

WHEAT POOL DISTRICT 4

MELVIN F. REIMER, LEINAN											
1A.....	4	3	Husky.....	—	102	11	4.5	2.5	43	2 Fd.	—
			Trail.....	—	100	11	4.8	3.0	47	1 Fd.	—
			Parkland....	—	104	13	2.5	2.3	45	2 Fd.	—
			Montcalm....	—	105	14	3.3	2.8	44	2 Fd.	—
			Vantage.....	—	107	13	4.3	2.8	46	1 Fd.	—
Test damaged by grasshoppers—yields not reliable. Rainfall—May to August 6.28 inches.											
PHILIP R. GORDON, WEBB											
1B.....	4	4	Husky.....	42.7	95	24	2.0	2.0	52	1 Fd.	—
			Trail.....	41.4	95	27	2.0	2.0	53	1 Fd.	—
			Parkland....	45.0	95	30	2.0	2.0	54	1 C.W. 6 R.	—
			Montcalm....	48.3	93	31	2.0	2.0	53	1 C.W. 6 R.	—
			Vantage.....	50.0	92	25	2.0	2.0	50	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.49 inches.											
INGVALD J. DOKKEN, BATTRUM											
1B.....	4	5	Husky.....	13.3	—	26	1.3	1.5	53	1 Fd.	—
			Trail.....	13.2	—	26	1.5	2.5	53	1 Fd.	—
			Parkland....	10.1	—	28	1.5	3.0	54	1 C.W. 6 R.	—
			Montcalm....	16.2	—	32	1.3	2.8	54	1 C.W. 6 R.	—
			Vantage.....	20.2	—	26	1.5	1.5	52	1 Fd.	—
Necessary difference—2.77 bushels. Rainfall—May to August 5.29 inches.											
ELLAINE J. SAWBY, GOLDEN PRAIRIE											
1B.....	4	6	Husky.....	98.3	—	—	—	—	51	1 Fd.	—
			Trail.....	109.2	—	—	—	—	53	1 Fd.	—
			Parkland....	99.2	—	—	—	—	54	1 C.W. 6 R.	—
			Montcalm....	109.0	—	—	—	—	53	1 C.W. 6 R.	—
			Vantage.....	121.0	—	—	—	—	52	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.40 inches.											
DONALD MYROL, FOX VALLEY											
1B.....	4	7	Husky.....	24.7	92	27	2.0	2.0	50	1 Fd.	—
			Trail.....	18.8	92	27	2.0	2.0	51	1 Fd.	—
			Parkland....	16.6	92	31	2.3	2.3	50	1 C.W. 6 R.	—
			Montcalm....	18.1	92	30	2.3	2.0	48	2 C.W. 6 R.	—
			Vantage.....	30.0	92	28	2.0	2.0	48	1 Fd.	—
Necessary difference—2.67 bushels. Rainfall—May to August 5.91 inches.											
DONALD SCHERGER, MENDHAM											
1B.....	4	8	Husky.....	59.0	71	25	1.5	1.8	49	1 Fd.	—
			Trail.....	47.3	67	25	2.5	2.5	49	1 Fd.	—
			Parkland....	49.7	70	27	2.0	3.0	51	1 C.W. 6 R.	—
			Montcalm....	46.5	69	29	1.5	1.5	50	1 C.W. 6 R.	—
			Vantage.....	73.8	68	28	1.0	1.0	49	1 Fd.	—
Necessary difference—5.19 bushels. Rainfall—May to August 2.96 inches.											

Wheat Pool District 4—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
S. CHARLIE TUCHSCHERER, PORTREEVE											
1D.....	4	9	Husky.....	—	—	—	—	—	44	1 Fd.	—
			Trail.....	—	—	—	—	—	47	1 Fd.	—
			Parkland.....	—	—	—	—	—	45	2 Fd.	—
			Montcalm.....	—	—	—	—	—	45	2 Fd.	—
			Vantage.....	—	—	—	—	—	45	2 Fd.	—
Test damaged by grasshoppers—yields not reliable. Rainfall—May to August 2.77 inches.											
LARRY L. BANG, CABRI											
1B.....	4	10	Husky.....	30.9	—	—	—	—	49	1 Fd.	—
			Trail.....	26.0	—	—	—	—	51	1 Fd.	—
			Parkland.....	19.8	—	—	—	—	51	1 C.W. 6 R.	—
			Montcalm.....	24.3	—	—	—	—	50	1 C.W. 6 R.	—
			Vantage.....	37.9	—	—	—	—	48	1 Fd.	—
Necessary difference—3.66 bushels. Rainfall—May to August 3.56 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
1B.....	4	1	Donald L. Wedrick, Carmichael.								

WHEAT POOL DISTRICT 5

LAURALINE AND MERVIN FINKBEINER, GLEN BAIN											
1A.....	5	2	Husky.....	44.9	88	26	2.0	2.3	49	1 Fd.	—
			Trail.....	42.3	89	25	2.0	2.5	49	1 Fd.	—
			Parkland.....	44.2	87	27	2.0	2.0	51	2 C.W. 6 R.	G.
			Montcalm.....	43.7	87	29	2.0	2.0	51	2 C.W. 6 R.	G.
			Vantage.....	50.2	88	26	2.0	2.0	48	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.73 inches.											
WILLIAM M. M. BROWN, VANGUARD											
1A.....	5	3	Husky.....	49.2	—	22	2.5	2.0	49	1 Fd.	—
			Trail.....	43.9	—	21	1.8	2.0	50	1 Fd.	—
			Parkland.....	44.6	—	24	3.0	1.5	50	1 C.W. 6 R.	—
			Montcalm.....	46.9	—	27	2.5	1.8	51	1 C.W. 6 R.	—
			Vantage.....	47.6	—	23	2.0	1.0	48	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.26 inches.											
HARRY C. NORTHCOTT, WALDECK											
1A.....	5	4	Husky.....	48.1	97	29	1.0	—	53	1 Fd.	—
			Trail.....	50.2	97	33	1.8	—	55	1 Fd.	—
			Parkland.....	42.7	97	35	1.8	—	56	1 C.W. 6 R.	—
			Montcalm.....	47.9	97	35	5.0	—	54	1 C.W. 6 R.	—
			Vantage.....	72.1	97	31	1.0	—	51	1 Fd.	—
Necessary difference—11.34 bushels. Rainfall—May to August 5.14 inches.											
DAVE A. SHELDON, OLD WIVES											
1A.....	5	6	Husky.....	39.7	—	23	1.0	2.0	49	1 Fd.	—
			Trail.....	36.0	—	21	2.3	2.8	50	1 Fd.	—
			Parkland.....	36.3	—	22	2.3	2.0	51	1 C.W. 6 R.	—
			Montcalm.....	38.2	—	25	2.5	2.3	50	1 C.W. 6 R.	—
			Vantage.....	51.3	—	21	2.5	2.0	47	1 Fd.	—
Necessary difference—7.51 bushels. Rainfall—May to August 3.76 inches.											
DENNIS G. REESOR, LAKE VALLEY											
2B.....	5	8	Husky.....	17.1	—	—	—	—	37	3 Fd.	—
			Trail.....	18.6	—	—	—	—	39	3 Fd.	—
			Parkland.....	15.4	—	—	—	—	43	3 Fd.	—
			Montcalm.....	21.4	—	—	—	—	40	3 Fd.	—
			Vantage.....	16.7	—	—	—	—	39	3 Fd.	—
Yield differences not significant. Rainfall—May to August 3.98 inches.											
LOYD E. SMITH, HALVORGATE											
1A.....	5	9	Husky.....	30.7	94	14	2.3	3.0	49	1 Fd.	—
			Trail.....	23.8	94	15	2.0	3.0	50	1 Fd.	—
			Parkland.....	23.0	94	15	2.0	3.0	50	2 C.W. 6 R.	W.
			Montcalm.....	23.1	94	16	2.0	3.0	50	2 C.W. 6 R.	W.
			Vantage.....	33.7	94	17	2.0	3.0	49	1 Fd.	—
Yield differences not significant. Rainfall record incomplete.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
1A.....	5	7	Raymond Wiman, Parkbeg.								

WHEAT POOL DISTRICT 6

ASHLEY G. BOESCH, RICETON											
2E.....	6	2	Husky.....	69.5	89	24	1.3	2.0	50	1 Fd.	—
			Trail.....	62.8	88	22	1.0	3.0	51	1 Fd.	—
			Parkland.....	59.7	91	25	1.8	2.3	51	1 C.W. 6 R.	—
			Montcalm.....	61.0	92	28	1.8	1.8	50	1 C.W. 6 R.	—
			York.....	28.1	86	22	1.3	2.3	55	1 Fd.	—
Samples bulked—yields not included in zone summary. Rainfall record incomplete.											

Wheat Pool District 6—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RONALD H. SANDERSON, AVONLEA											
2E.....	6	4	Husky.....	40.1	88	33	1.0	1.0	45	2 Fd.	—
			Trall.....	42.0	86	33	1.0	1.0	49	1 Fd.	—
			Parkland....	34.9	86	33	1.0	1.0	45	2 Fd.	—
			Montcalm....	39.9	87	34	1.3	1.0	47	3 C.W. 6 R.	—
			York.....	50.5	74	33	3.0	2.0	51	1 Fd.	—
Necessary difference—9.35 bushels. Rainfall—May to August 2.99 inches.											
HOWARD J. DUNCAN, REGINA											
2E.....	6	7	Husky.....	51.7	100	29	2.3	2.3	45	2 Fd.	—
			Trall.....	48.3	99	31	2.3	2.0	50	1 Fd.	—
			Parkland....	37.2	98	31	2.3	2.0	49	2 C.W. 6 R.	—
			Montcalm....	32.4	101	31	3.0	1.8	48	2 C.W. 6 R.	—
			York.....	28.2	95	27	3.0	2.5	51	1 Fd.	—
Unsatisfactory germination—yields not included in zone summary. Rainfall—May to August 4.19 inches.											
JAMES M. STEPHENSON, INDIAN HEAD											
3C.....	6	8	Husky.....	45.9	92	29	1.3	1.0	51	1 Fd.	—
			Trall.....	37.2	88	29	1.3	1.5	53	1 Fd.	—
			Parkland....	31.9	89	31	1.5	1.8	54	1 C.W. 6 R.	—
			Montcalm....	46.2	90	32	1.5	1.0	53	1 C.W. 6 R.	—
			York.....	24.2	86	28	2.0	2.8	55	1 Fd.	—
Necessary difference—7.08 bushels. Rainfall—May to August 3.83 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
2A.....	6	3	Barry J. Hertzog, Parry.								
2E.....	6	6	Gailen B. Waller, Drinkwater.								

WHEAT POOL DISTRICT 7

MILTON R. SHOEMAKER, KENNEDY											
3A.....	7	3	Husky.....	34.3	98	32	2.0	2.0	45	2 Fd.	—
			Trall.....	35.7	95	30	3.0	3.0	46	1 Fd.	—
			Parkland....	35.5	94	33	2.0	2.0	47	3 C.W. 6 R.	—
			Montcalm....	33.0	95	36	3.0	2.0	46	3 C.W. 6 R.	—
			York.....	27.4	92	23	1.0	3.0	50	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.82 inches.											
RONALD F. FILLER, GRENFELL											
3A.....	7	7	Husky.....	35.0	88	24	—	—	40	3 Fd.	—
			Trall.....	35.0	87	25	—	—	42	3 Fd.	—
			Parkland....	37.0	87	25	—	—	43	2 Fd.	—
			Montcalm....	41.9	87	25	—	—	40	3 Fd.	—
			York.....	43.9	85	24	—	—	46	1 Fd.	—
Yield differences not significant. Rainfall—May to August 4.37 inches.											
HERBERT G. MAGNUSSON, SPY HILL											
3C.....	7	9	Husky.....	—	—	28	2.5	2.0	44	2 Fd.	—
			Trall.....	—	—	27	2.0	2.0	47	1 Fd.	—
			Parkland....	—	—	25	2.0	2.0	47	3 C.W. 6 R.	—
			Montcalm....	—	—	28	2.3	2.0	46	3 C.W. 6 R.	—
			York.....	—	—	27	2.3	2.0	49	1 Fd.	—
Test damaged—yields not reliable. Rainfall—May to August 2.75 inches.											
KENNETH J. MUJYGLA, WALDRON											
3C.....	7	11	Husky.....	35.8	87	26	1.5	1.8	45	2 Fd.	—
			Trall.....	28.4	89	29	1.5	1.8	46	1 Fd.	—
			Parkland....	32.3	86	28	2.0	2.0	49	2 C.W. 6 R.	—
			Montcalm....	37.7	88	31	1.3	1.5	47	3 C.W. 6 R.	—
			York.....	42.1	84	27	1.5	1.3	51	1 Fd.	—
Necessary difference—6.70 bushels. Rainfall—May to August 7.33 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
3A.....	7	1	Larry H. Fisk, Kelso.								
3A.....	7	5	Kenneth F. Wood, Corning.								

WHEAT POOL DISTRICT 8

EVELYN G. WEGNER, RHEIN											
3B.....	8	2	Husky.....	65.5	—	32	2.0	2.0	47	1 Fd.	—
			Trall.....	64.6	—	29	2.0	2.0	50	1 Fd.	—
			Parkland....	53.9	—	34	1.0	1.0	50	1 C.W. 6 R.	—
			Montcalm....	63.3	—	26	2.0	2.0	50	1 C.W. 6 R.	—
			York.....	70.0	—	27	2.0	2.0	51	1 Fd.	—
Yield differences not significant. Rainfall—May to August 2.89 inches.											

Wheat Pool District 8—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ANDREW A. MANDZIAK, GOODEVE											
3B.....	8	3	Husky.....	24.0	—	—	—	—	44	2 Fd.	—
			Trail.....	25.2	—	—	—	—	44	2 Fd.	—
			Parkland....	21.8	—	—	—	—	43	2 Fd.	—
			Montcalm....	19.1	—	—	—	—	43	2 Fd.	—
			York.....	31.5	—	—	—	—	48	1 Fd.	—
Necessary difference—6.17 bushels.				Rainfall—May to August 4.47 inches.							
RICHARD PIKULA, AMSTERDAM											
3B.....	8	6	Husky.....	89.2	90	40	1.5	2.0	52	1 Fd.	—
			Trail.....	77.6	90	40	1.8	2.5	50	1 Fd.	—
			Parkland....	70.1	89	43	1.8	2.0	53	1 C.W. 6 R.	—
			Montcalm....	77.0	90	44	4.5	2.5	50	1 C.W. 6 R.	—
			York.....	78.6	90	39	1.8	1.5	53	1 Fd.	—
Necessary difference—11.02 bushels.				Rainfall—May to August 5.36 inches.							
D. WAYNE LEE, INVERMAY											
3C.....	8	7	Husky.....	88.1	94	43	—	—	50	1 Fd.	—
			Trail.....	76.3	92	40	—	—	48	1 Fd.	—
			Parkland....	61.1	93	48	—	—	49	1 Fd.	G.
			Montcalm....	80.4	96	48	—	—	48	1 Fd.	G.
			York.....	70.9	89	40	—	—	53	1 Fd.	—
Necessary difference—9.49 bushels.				Rainfall record incomplete.							
LYNN M. ROSAASEN, HINCHLIFFE											
4A.....	8	8	Husky.....	55.5	—	—	—	—	49	1 Fd.	—
			Trail.....	54.1	—	—	—	—	46	1 Fd.	—
			Parkland....	51.0	—	—	—	—	49	2 C.W. 6 R.	—
			Montcalm....	49.6	—	—	—	—	46	3 C.W. 6 R.	—
			York.....	54.6	—	—	—	—	51	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 5.55 inches.							
BYRON D. HAM, NORQUAY											
3B.....	8	9	Husky.....	105.7	84	—	2.3	1.3	48	1 Fd.	—
			Trail.....	107.8	85	—	4.5	1.0	49	1 Fd.	—
			Parkland....	106.7	84	—	2.0	1.3	51	1 C.W. 6 R.	—
			Montcalm....	108.3	85	—	3.3	1.8	48	2 C.W. 6 R.	—
			York.....	97.9	84	—	4.5	1.0	51	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 6.03 inches.							
Tests discarded on account of damage by flooding, hail, pests, drought or other causes.											
3B.....	8	5	Allen Konkin, Kamsack.								

WHEAT POOL DISTRICT 9

JOHN F. HEGGIE, LEROSS											
3C.....	9	3	Husky.....	28.2	114	24	1.0	1.8	46	1 Fd.	—
			Trail.....	25.2	113	24	1.0	1.8	47	1 Fd.	—
			Parkland....	21.7	116	25	1.5	1.8	47	3 C.W. 6 R.	—
			Montcalm....	22.0	114	28	1.3	1.3	46	3 C.W. 6 R.	—
			York.....	28.9	101	25	1.5	1.8	52	1 Fd.	—
Necessary difference—5.48 bushels.				Rainfall—May to August 4.82 inches.							
ROBERT W. SCHNEIDER, STRASBOURG											
3C.....	9	4	Husky.....	70.2	91	28	1.0	2.0	43	2 Fd.	—
			Trail.....	78.6	86	28	1.0	2.0	47	1 Fd.	—
			Parkland....	77.8	91	28	1.0	2.0	48	2 C.W. 6 R.	—
			Montcalm....	81.9	92	28	1.0	2.0	47	3 C.W. 6 R.	—
			York.....	85.7	84	28	1.0	2.0	50	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 5.67 inches.							
RONALD K. McKAY, GOVAN											
2B.....	9	5	Husky.....	78.6	96	34	3.0	2.0	48	1 Fd.	—
			Trail.....	70.6	95	34	3.3	2.0	50	1 Fd.	—
			Parkland....	69.5	95	35	3.0	2.0	51	1 C.W. 6 R.	—
			Montcalm....	79.5	94	37	3.0	2.0	51	1 C.W. 6 R.	—
			Vantage.....	82.7	96	33	1.8	1.0	49	1 Fd.	—
Necessary difference—5.69 bushels.				Rainfall—May to August 5.68 inches.							
THOMAS ROBERT HALSTEAD, NOKOMIS											
2B.....	9	6	Husky.....	39.4	105	31	1.0	2.5	44	2 Fd.	—
			Trail.....	40.9	105	31	1.0	3.0	47	1 Fd.	—
			Parkland....	35.9	105	34	1.0	2.8	47	3 C.W. 6 R.	—
			Montcalm....	34.5	105	32	1.3	2.3	46	3 C.W. 6 R.	—
			Vantage.....	37.1	105	31	1.0	1.0	45	2 Fd.	—
Yield differences not significant.				Rainfall—May to August 3.18 inches.							

Wheat Pool District 9—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONALD J. SCHINDELKA, RAYMORE											
3C.....	9	7	Husky.....	30.4	—	—	—	—	42	3 Fd.	—
			Traill.....	26.1	—	—	—	—	38	3 Fd.	—
			Parkland....	35.3	—	—	—	—	40	3 Fd.	—
			Montcalm....	18.6	—	—	—	—	41	3 Fd.	—
			York.....	26.0	—	—	—	—	46	1 Fd.	—
Samples incomplete—yields not included in zone summary. Rainfall—May to August 4.12 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.

3C.....	9	2	William W. Steward, Markinch.								
3C.....	9	10	June and Sandra Patterson, Leslie.								

WHEAT POOL DISTRICT 10

JOSEPH A. BOEHM, HOLDFAST											
2B.....	10	1	Husky.....	35.8	81	27	4.3	2.0	38	1 Fd.	—
			Traill.....	33.8	81	25	2.3	2.5	39	1 Fd.	—
			Parkland....	36.6	81	27	3.0	1.3	41	3 Fd.	—
			Montcalm....	38.1	81	28	4.8	1.8	39	3 Fd.	—
			Vantage.....	42.7	81	26	3.3	1.0	39	3 Fd.	—

Yield differences not significant. Rainfall—May to August 5.70 inches.

MERVIN J. TUPLIN, BEECHY											
1A.....	10	3	Husky.....	13.7	82	16	5.0	1.8	50	1 Fd.	—
			Traill.....	15.0	84	15	4.5	2.5	52	1 Fd.	—
			Parkland....	10.3	86	20	5.5	2.8	50	2 C.W. 6 R.	G.
			Montcalm....	19.6	81	18	3.5	1.8	51	1 C.W. 6 R.	—
			Vantage.....	14.0	82	16	2.8	1.5	49	1 Fd.	—

Yield differences not significant. Rainfall—May to August 1.75 inches.

GORDON B. SAWYER, DINSMORE											
1D.....	10	4	Husky.....	52.1	104	29	1.5	2.0	47	1 Fd.	—
			Traill.....	49.5	104	29	1.3	2.5	51	1 Fd.	—
			Parkland....	48.0	102	33	2.0	2.0	49	2 C.W. 6 R.	—
			Montcalm....	49.1	100	34	1.3	2.0	50	1 C.W. 6 R.	—
			Vantage.....	53.0	104	30	1.8	1.5	49	1 Fd.	—

Yield differences not significant. Rainfall—May to August 3.92 inches.

HUGH M. HOPKINS, BRATTON											
2D.....	10	5	Husky.....	38.0	97	20	3.0	2.0	49	1 Fd.	—
			Traill.....	27.7	98	17	3.0	2.0	49	1 Fd.	—
			Parkland....	31.0	96	21	3.3	3.0	49	2 C.W. 6 R.	—
			Montcalm....	31.0	97	23	2.3	1.8	47	3 C.W. 6 R.	—
			Vantage.....	39.6	96	21	2.5	1.8	47	1 Fd.	—

Necessary difference—6.10 bushels. Rainfall—May to August 4.47 inches.

K. PETER FARDEN, BRODERICK											
2D.....	10	6	Husky.....	36.3	—	—	—	—	45	2 Fd.	—
			Traill.....	36.4	—	—	—	—	48	1 Fd.	—
			Parkland....	32.7	—	—	—	—	48	2 C.W. 6 R.	—
			Montcalm....	34.1	—	—	—	—	48	2 C.W. 6 R.	—
			Vantage.....	35.9	—	—	—	—	46	1 Fd.	—

Yield differences not significant. Rainfall—May to August 4.72 inches.

DIRK L. CORNISH, GIRVIN											
2B.....	10	7	Husky.....	52.3	—	—	—	—	42	3 Fd.	—
			Traill.....	47.1	—	—	—	—	48	1 Fd.	—
			Parkland....	51.1	—	—	—	—	49	2 C.W. 6 R.	—
			Montcalm....	52.9	—	—	—	—	46	3 C.W. 6 R.	—
			Vantage.....	52.7	—	—	—	—	47	1 Fd.	—

Necessary difference—3.41 bushels. Rainfall—May to August 3.94 inches.

WILLIAM H. WOLFF, LIBERTY											
2B.....	10	8	Husky.....	—	99	18	6.0	2.0	48	1 Fd.	—
			Traill.....	—	92	20	6.0	2.0	47	1 Fd.	—
			Parkland....	—	96	25	6.0	2.0	47	3 C.W. 6 R.	—
			Montcalm....	—	94	18	6.0	2.0	44	2 Fd.	—
			Vantage.....	—	96	15	6.0	2.0	45	2 Fd.	—

Test damaged by grasshoppers—yields not reliable. Rainfall—May to August 4.53 inches.

JAMES F. WINDER, LAURA											
2D.....	10	10	Husky.....	28.8	99	26	1.0	1.0	43	2 Fd.	—
			Traill.....	25.4	99	25	1.0	2.0	46	1 Fd.	—
			Parkland....	30.2	99	27	1.0	2.0	46	3 C.W. 6 R.	—
			Montcalm....	37.1	99	28	1.0	2.0	46	3 C.W. 6 R.	—
			Vantage.....	33.1	99	26	1.0	2.0	44	2 Fd.	—

Necessary difference—5.04 bushels. Rainfall—May to August 5.77 inches.

WHEAT POOL DISTRICT 11

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JUNE M. HANTELMAN, TYNER											
1D.....	11	1	Husky.....	36.7	—	—	2.0	2.5	46	1 Fd.	—
			Traill.....	37.2	—	—	2.0	2.5	50	1 Fd.	—
			Parkland....	32.3	—	—	1.5	2.0	49	1 Fd.	G.
			Montcalm....	41.9	—	—	1.8	2.0	50	1 Fd.	G.
			Vantage.....	47.4	—	—	1.8	1.3	50	1 Fd.	—
Necessary difference—6.74 bushels.				Rainfall—May to August 3.90 inches.							
RICHARD D. MICHTA, GLIDDEN											
1D.....	11	3	Husky.....	19.3	85	17	2.0	2.0	43	2 Fd.	—
			Traill.....	17.5	85	17	2.0	2.0	43	2 Fd.	—
			Parkland....	17.6	85	18	2.0	2.0	45	2 Fd.	—
			Montcalm....	19.6	85	21	2.0	2.0	44	2 Fd.	—
			Vantage.....	23.7	85	22	2.0	2.0	43	2 Fd.	—
Necessary difference—3.19 bushels.				Rainfall—May to August 3.44 inches.							
TIMOTHY D. McBRIDE, MARENGO											
1D.....	11	5	Husky.....	37.0	76	25	1.0	1.3	50	1 Fd.	—
			Traill.....	34.4	76	25	2.0	2.3	53	1 Fd.	—
			Parkland....	30.2	76	26	1.8	1.5	52	2 C.W. 6 R.	G.
			Montcalm....	37.3	77	27	1.5	1.5	52	2 C.W. 6 R.	G.
			Vantage.....	38.7	76	24	1.5	1.5	50	1 Fd.	—
Necessary difference—2.87 bushels.				Rainfall record incomplete.							
DENNIS J. MOIR, BEADLE											
1D.....	11	6	Husky.....	36.2	98	28	—	—	50	1 Fd.	—
			Traill.....	36.8	99	28	—	—	49	1 Fd.	—
			Parkland....	31.5	99	26	—	—	51	1 C.W. 6 R.	—
			Montcalm....	37.2	100	29	—	—	49	2 C.W. 6 R.	—
			Vantage.....	37.5	100	27	—	—	58	1 Fd.	—
Yield differences not significant.				Rainfall—May to August 4.28 inches.							
GRANT W. J. GIBBINGS, ROSETOWN											
1D.....	11	7	Husky.....	59.0	84	33	1.0	2.0	48	1 Fd.	—
			Traill.....	73.3	85	33	1.0	3.0	52	1 Fd.	—
			Parkland....	49.3	83	38	1.0	3.0	51	1 C.W. 6 R.	—
			Montcalm....	68.1	84	40	1.0	2.3	50	1 C.W. 6 R.	—
			Vantage.....	84.2	86	34	1.0	1.0	51	1 Fd.	—
Necessary difference: 7.07 bushels.				Rainfall—May to August 4.65 inches.							
RONALD G. FOX, RUTHILDA											
2D.....	11	8	Husky.....	—	—	—	—	—	43	2 Fd.	—
			Traill.....	—	—	—	—	—	48	1 Fd.	—
			Parkland....	—	—	—	—	—	45	2 Fd.	—
			Montcalm....	—	—	—	—	—	44	2 Fd.	—
			Vantage.....	—	—	—	—	—	48	1 Fd.	—
Tests damaged—yields not reliable.				Rainfall—May to August 4.13 inches.							
RONALD J. McGRATH, DODSLAND											
1D.....	11	9	Husky.....	41.0	92	20	2.0	2.0	51	1 Fd.	—
			Traill.....	38.4	92	21	2.0	1.0	53	1 Fd.	—
			Parkland....	32.4	91	24	2.0	3.0	53	1 C.W. 6 R.	—
			Montcalm....	40.8	91	26	2.0	3.0	52	1 C.W. 6 R.	—
			Vantage.....	47.0	91	20	1.0	1.0	51	1 Fd.	—
Necessary difference—2.32 bushels.				Rainfall—May to August 3.80 inches.							
MARVIN C. BANKS, LUSELAND											
1D.....	11	10	Husky.....	13.4	—	20	2.0	2.3	49	1 Fd.	—
			Traill.....	13.3	—	22	2.0	2.3	47	1 Fd.	—
			Parkland....	7.2	—	24	2.0	2.3	48	1 Fd.	W.
			Montcalm....	5.2	—	23	2.0	2.5	47	1 Fd.	W.
			Vantage.....	21.0	—	24	2.0	2.3	46	1 Fd.	—
Test damaged—yields not included in zone summary.				Rainfall—May to August 2.48 inches.							
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
1D.....	11	4	James C. Hawtin, Alask.								

WHEAT POOL DISTRICT 12

KENNETH SEIDL, BIGGAR											
2D.....	12	1	Husky.....	43.4	—	—	—	—	52	1 Fd.	—
			Traill.....	52.3	—	—	—	—	49	1 Fd.	—
			Parkland....	41.7	—	—	—	—	51	1 Fd.	G.
			Montcalm....	41.7	—	—	—	—	49	1 Fd.	G.
			Vantage.....	54.5	—	—	—	—	50	1 Fd.	—
Necessary difference—10.36 bushels.				Rainfall—May to August 6.74 inches.							

Wheat Pool District 12—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DENNIS M. H. ARNOLD, KELFIELD											
2D.....	12	3	Husky.....	38.2	89	34	2.0	1.0	40	3 Fd.	—
			Trail.....	38.3	88	34	2.0	1.0	44	2 Fd.	—
			Parkland.....	35.5	91	36	2.0	1.0	46	3 C.W. 6 R.	—
			Montcalm.....	42.5	89	36	2.0	1.0	45	2 Fd.	—
			Vantage.....	41.7	90	35	2.0	1.0	45	2 Fd.	—
Yield differences not significant. Rainfall—May to August 3.71 inches.											
TERRANCE F. PARTINGTON, EVESHAM											
2D.....	12	6	Husky.....	47.5	88	—	—	—	50	1 Fd.	—
			Trail.....	38.4	88	—	—	—	50	1 Fd.	—
			Parkland.....	37.5	89	—	—	—	51	3 C.W. 6 R.	D.
			Montcalm.....	38.3	88	—	—	—	49	3 C.W. 6 R.	D.
			Vantage.....	44.9	88	—	—	—	47	1 Fd.	—
Necessary difference—2.90 bushels. Rainfall—May to August 5.24 inches.											
ROSS G. LOY, MARSDEN											
3E.....	12	8	Husky.....	54.0	—	—	—	—	46	1 Fd.	—
			Trail.....	45.9	—	—	—	—	47	1 Fd.	—
			Parkland.....	45.3	—	—	—	—	50	1 C.W. 6 R.	—
			Montcalm.....	47.7	—	—	—	—	47	3 C.W. 6 R.	—
			York.....	53.2	—	—	—	—	52	1 Fd.	—
Necessary difference—5.56 bushels. Rainfall—May to August 3.37 inches.											
CHARLES W. D. CHURCHILL, WILKIE											
2D.....	12	9	Husky.....	17.7	—	—	—	—	47	1 Fd.	—
			Trail.....	14.1	—	—	—	—	48	1 Fd.	—
			Parkland.....	13.7	—	—	—	—	48	2 C.W. 6 R.	—
			Montcalm.....	19.2	—	—	—	—	48	2 C.W. 6 R.	—
			Vantage.....	18.5	—	—	—	—	47	1 Fd.	—
Necessary difference—3.01 bushels. Rainfall record incomplete.											
BRUCE GROVE, BATTLEFORD											
3G.....	12	10	Husky.....	40.3	—	25	1.0	1.0	54	1 Fd.	—
			Trail.....	35.0	—	24	1.0	1.0	53	1 Fd.	—
			Parkland.....	31.8	—	30	1.0	2.0	55	1 C.W. 6 R.	—
			Montcalm.....	34.6	—	30	1.0	3.0	54	1 C.W. 6 R.	—
			York.....	42.3	—	25	1.0	1.0	54	1 Fd.	—
Necessary difference—4.33 bushels. Rainfall record incomplete.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
2D.....	12	4	Robert D. Tomkins, Broadacres.								
2D.....	12	7	Donald Reichert, Senlac.								

WHEAT POOL DISTRICT 13

NORBERT BRECHT, BAY TRAIL											
3D.....	13	1	Husky.....	—	96	33	1.8	1.3	49	1 Fd.	—
			Trail.....	—	97	32	2.0	2.8	49	1 Fd.	—
			Parkland.....	—	95	34	1.8	2.0	49	2 C.W. 6 R.	—
			Montcalm.....	—	95	33	1.5	1.3	48	2 C.W. 6 R.	—
			York.....	—	98	33	2.0	3.0	50	1 Fd.	—
Test damaged by livestock—yields not reliable. Rainfall—May to August 3.58 inches.											
ROY E. KAMINSKI, YOUNG											
2B.....	13	2	Husky.....	50.2	102	27	2.8	1.8	47	1 Fd.	—
			Trail.....	50.2	102	27	2.3	2.8	48	1 Fd.	—
			Parkland.....	46.7	102	28	3.8	2.8	50	1 Fd.	G.
			Montcalm.....	59.3	102	30	3.0	2.3	50	1 Fd.	G.
			Vantage.....	57.1	102	27	1.8	1.5	47	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.22 inches.											
WAYNE L. EVANS, DUNDURN											
2D.....	13	3	Husky.....	73.2	—	—	—	—	46	1 Fd.	—
			Trail.....	67.2	—	—	—	—	49	1 Fd.	—
			Parkland.....	57.2	—	—	—	—	49	2 C.W. 6 R.	—
			Montcalm.....	67.4	—	—	—	—	47	3 C.W. 6 R.	—
			Vantage.....	76.9	—	—	—	—	46	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.61 inches.											
GLENN A. HUNTER, SASKATOON											
2D.....	13	5	Husky.....	20.7	108	25	4.5	2.8	45	2 Fd.	—
			Trail.....	17.3	107	23	4.3	2.8	46	1 Fd.	—
			Parkland.....	18.0	109	24	4.0	2.8	47	3 C.W. 6 R.	—
			Montcalm.....	22.6	108	24	4.5	2.5	50	2 C.W. 6 R.	G.
			Vantage.....	24.1	108	25	4.5	2.5	47	1 Fd.	—
Yield differences not significant. Rainfall—May to August 4.03 inches.											

Wheat Pool District 13—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ROGER SIERMACHESKY, SMUTS											
3G.....	13	8	Husky.....	42.2	—	—	—	—	41	3 Fd.	—
			Trail.....	40.8	—	—	—	—	44	2 Fd.	—
			Parkland.....	33.7	—	—	—	—	46	3 C.W. 6 R.	—
			Montcalm.....	42.8	—	—	—	—	43	2 Fd.	—
			York.....	26.1	—	—	—	—	49	1 Fd.	—
Necessary difference—7.54 bushels. Rainfall—May to August 4.11 inches.											
BERNARD BENDIG, BRUNO											
2B.....	13	9	Husky.....	49.9	103	30	2.3	2.0	48	1 Fd.	—
			Trail.....	46.4	100	27	3.5	2.5	49	1 Fd.	—
			Parkland.....	45.0	99	29	2.3	2.0	53	2 C.W. 6 R.	W.
			Montcalm.....	50.0	100	29	2.3	1.8	53	3 C.W. 6 R.	W.
			Vantage.....	47.7	100	27	3.3	3.0	46	1 Fd.	—
Samples bulked—yields not included in zone summary. Rainfall—May to August 4.54 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.											
2B.....	13	4	Douglas G. Greenwood, Cheviot.								
2D.....	13	5	William J. Oliver, R.R. No. 5, Saskatoon.								
2D.....	13	6	Cecil Stushnoff, Vanscoy.								
2B.....	13	10	John R. Gray, Carmel.								

WHEAT POOL DISTRICT 14

LEONARD K. SCHWANKE, KUROKI											
4A.....	14	1	Husky.....	67.1	91	31	2.0	1.3	47	1 Fd.	—
			Trail.....	63.7	90	33	1.5	1.3	46	1 Fd.	—
			Parkland.....	57.7	91	36	1.8	1.3	49	2 C.W. 6 R.	—
			Montcalm.....	69.4	92	36	2.0	1.0	48	2 C.W. 6 R.	—
			York.....	65.3	89	31	1.8	3.0	51	1 Fd.	—
Necessary difference—5.19 bushels. Rainfall—May to August 3.29 inches.											
GARRY AND DENNIS OTT, WADENA											
3C.....	14	2	Husky.....	60.9	79	32	2.3	1.0	46	1 Fd.	—
			Trail.....	55.2	76	33	3.8	1.3	46	1 Fd.	—
			Parkland.....	56.6	78	35	1.8	1.0	51	1 C.W. 6 R.	—
			Montcalm.....	44.6	77	37	4.0	1.3	50	1 C.W. 6 R.	—
			York.....	44.5	75	36	6.0	1.0	53	1 Fd.	—
Test damaged by livestock—yields not included in zone summary. Rainfall—May to August 3.49 inches.											
KENNETH W. KENASCHUK, WATSON											
3D.....	14	3	Husky.....	79.1	93	40	1.0	1.0	50	1 Fd.	—
			Trail.....	74.4	89	42	1.0	1.0	50	1 Fd.	—
			Parkland.....	56.0	89	44	1.0	1.3	51	2 C.W. 6 R.	W.
			Montcalm.....	64.5	90	46	1.0	1.0	50	2 C.W. 6 R.	W.
			York.....	64.4	85	36	1.0	2.5	52	1 Fd.	—
Necessary difference—8.36 bushels. Rainfall—May to August 4.57 inches.											
MARTIN J. BOHN, ARCHERWILL											
4A.....	14	4	Husky.....	77.1	95	42	2.8	1.8	48	1 Fd.	—
			Trail.....	81.7	97	42	2.5	1.3	48	1 Fd.	—
			Parkland.....	76.3	97	45	3.5	1.3	49	2 C.W. 6 R.	—
			Montcalm.....	89.8	97	46	3.5	1.3	48	2 C.W. 6 R.	—
			York.....	87.7	91	40	1.5	3.0	52	1 Fd.	—
Necessary difference—10.17 bushels. Rainfall—May to August 7.56 inches.											
ROGER COTE, PERIGORD											
3D.....	14	5	Husky.....	83.8	94	—	—	—	51	1 Fd.	—
			Trail.....	74.3	92	—	—	—	48	1 Fd.	—
			Parkland.....	76.0	93	—	—	—	49	2 C.W. 6 R.	—
			Montcalm.....	76.4	94	—	—	—	49	2 C.W. 6 R.	—
			York.....	74.2	89	—	—	—	52	1 Fd.	—
Yield differences not significant. Rainfall—May to August 5.91 inches.											
ROBERT C. JACKSON, SYLVANIA											
3F.....	14	7	Husky.....	102.0	—	—	—	—	50	1 Fd.	—
			Trail.....	107.3	—	—	—	—	50	1 Fd.	—
			Parkland.....	90.5	—	—	—	—	51	3 C.W. 6 R.	W.
			Montcalm.....	102.5	—	—	—	—	50	3 C.W. 6 R.	W.
			York.....	80.4	—	—	—	—	52	1 Fd.	—
Necessary difference—7.23 bushels. Rainfall—May to August 6.39 inches.											
ROBERT J. PATERSON, ETHELTON											
3D.....	14	8	Husky.....	42.0	92	24	1.5	1.0	47	1 Fd.	—
			Trail.....	32.0	88	24	1.0	1.3	47	1 Fd.	—
			Parkland.....	37.2	88	24	1.3	1.3	50	2 C.W. 6 R.	W.
			Montcalm.....	41.2	88	26	1.5	1.3	49	2 C.W. 6 R.	W.
			York.....	39.2	88	25	1.3	1.5	52	1 Fd.	—
Necessary difference—4.11 bushels. Rainfall—May to August 3.76 inches.											

Wheat Pool District 14—Continued

Cereal Variety Zone	Sub-Dist.	Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LORNE G. HANSEN, WELDON											
3J.....	14	9	Husky.....	66.8	107	26	2.5	1.3	51	1 Fd.	—
			Trail.....	58.3	106	25	2.0	1.3	50	1 Fd.	—
			Parkland.....	50.4	103	29	2.8	2.0	52	3 C.W. 6 R.	W.
			Montcalm.....	60.0	102	34	3.0	2.0	51	3 C.W. 6 R.	W.
			York.....	65.2	94	20	3.0	1.7	53	1 Fd.	—
Necessary difference—8.92 bushels. Rainfall—May to August 4.96 inches.											

WHEAT POOL DISTRICT 15

MELVIN REIDT, DUCK LAKE											
3G.....	15	3	Husky.....	52.4	—	—	—	—	49	1 Fd.	—
			Trail.....	43.2	—	—	—	—	51	1 Fd.	—
			Parkland.....	30.8	—	—	—	—	52	2 C.W. 6 R.	W.
			Montcalm.....	32.1	—	—	—	—	50	2 C.W. 6 R.	W.
			York.....	31.1	—	—	—	—	53	1 Fd.	—
Necessary difference—4.36 bushels. Rainfall—May to August 2.55 inches.											

IDA H. SOMMERFELD, SHELLBROOK											
3J.....	15	8	Husky.....	136.2	93	—	—	—	49	1 Fd.	—
			Trail.....	111.6	94	—	—	—	50	1 Fd.	—
			Parkland.....	109.9	93	—	—	—	51	2 C.W. 6 R.	W.
			Montcalm.....	114.6	93	—	—	—	50	2 C.W. 6 R.	W.
			York.....	78.4	93	—	—	—	52	1 Fd.	—
Necessary difference—18.87 bushels. Rainfall—May to August 4.44 inches.											

PAUL M. HANSON, SPRUCE HOME											
3J.....	15	9	Husky.....	87.9	—	—	—	—	50	1 Fd.	—
			Trail.....	74.5	—	—	—	—	46	1 Fd.	—
			Parkland.....	74.6	—	—	—	—	51	1 C.W. 6 R.	—
			Montcalm.....	78.9	—	—	—	—	48	2 C.W. 6 R.	—
			York.....	76.9	—	—	—	—	52	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.01 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes.
 4A..... 15 10 Angeline Bodnachuk, Foxford.

WHEAT POOL DISTRICT 16

WALTER A. MOSIMANN, EDAM											
3E.....	16	4	Husky.....	25.5	103	22	1.5	1.0	51	1 Fd.	—
			Trail.....	22.5	102	24	1.0	1.3	49	1 Fd.	—
			Parkland.....	23.2	101	24	2.0	1.3	53	2 C.W. 6 R.	W.
			Montcalm.....	27.8	105	26	2.3	1.5	51	2 C.W. 6 R.	W.
			York.....	31.4	97	25	4.0	3.0	53	1 Fd.	—
Yield differences not significant. Rainfall—May to August 3.82 inches.											

S. BARRY BRAUN, BRESAYLOR											
3E.....	16	5	Husky.....	53.6	—	—	—	—	48	1 Fd.	—
			Trail.....	46.2	—	—	—	—	49	1 Fd.	—
			Parkland.....	36.5	—	—	—	—	51	2 C.W. 6 R.	G.
			Montcalm.....	48.0	—	—	—	—	49	2 C.W. 6 R.	—
			York.....	41.0	—	—	—	—	44	2 Fd.	—
Necessary difference—8.04 bushels. Rainfall record incomplete.											

ERNEST F. HANNIS, FRENCHMAN BUTTE											
4B.....	16	7	Husky.....	36.2	98	21	2.3	1.3	48	1 Fd.	—
			Trail.....	37.7	94	21	1.3	1.3	47	1 Fd.	—
			Parkland.....	35.0	95	23	1.8	1.3	49	2 C.W. 6 R.	—
			Montcalm.....	39.4	96	25	2.5	2.3	47	3 C.W. 6 R.	—
			York.....	49.1	95	22	3.8	1.8	51	1 Fd.	—
Necessary difference 5.76 bushels. Rainfall—May to August 5.22 inches.											

RALPH A. KYLE, DORINTOSH											
3H.....	16	11	Husky.....	44.2	93	26	1.3	1.0	46	1 Fd.	—
			Trail.....	45.0	90	27	1.0	1.5	45	2 Fd.	—
			Parkland.....	42.4	90	27	1.0	1.0	48	2 C.W. 6 R.	—
			Montcalm.....	45.3	92	29	2.0	1.0	46	3 C.W. 6 R.	—
			York.....	39.9	88	28	2.3	1.5	48	1 Fd.	—
Yield differences not significant. Rainfall—May to August 6.32 inches.											

RAPE TESTS

For the first time in 1958 a rape testing project was undertaken on an experimental basis. A total of 32 rape tests were seeded. Each test contained the five varieties, Golden, Regina II, R-5, Arlo and Polish. Tests were located throughout the province on the basis of two in each Wheat Pool district. As a result, some rape tests were located in areas where little or no rape can be expected to be grown as a crop. However, it is hoped that the results of these tests will serve to show the differences between varieties of rape and also the effect of different growing conditions on the characteristics of the varieties. The location of the individual rape tests is shown on the map on page 5.

DESCRIPTION OF VARIETIES

Two distinct types of rape were included in these tests. Three of the varieties tested were of the Argentine type and the remaining two were of the Polish type.

Varieties of the Argentine Type

Varieties of this type are considerably later in maturity than those of the Polish type. They are taller growing, and have smooth, blue-green leaves. The seed of these varieties is larger than that of the Polish types.

Golden—Was developed at the Dominion Forage Crops Laboratory, Saskatoon. It is a licensed variety in Canada.

Regina II—Was developed at the Swedish Seed Association, Svalof, Sweden. It resembles Golden in appearance.

R-5—This is a code number for an unlicensed selection of the Argentine type.

Varieties of the Polish Type

These varieties are quite early in maturity, have green crinkled leaves and small seeds.

Polish—Traces back to seed imported from Europe. It was the first variety to be grown in Saskatchewan.

Arlo—Was developed by the Swedish Seed Association, Svalof, Sweden. It is similar to Polish in appearance. Arlo was licensed in Canada in 1958 but seed will not be generally available until 1960.

INTERPRETATION OF RESULTS

In addition to the usual calculation of yield, time of ripening, plant height, bushel weight, etc., seed samples from the tests were subjected to laboratory analysis to determine a number of factors which affect the industrial uses of rape seed oil. A brief outline of the tests conducted and the interpretation of the results follows:

Percentage of Oil—Rape seed oil is the primary product of this crop, so the value of the seed is in direct proportion to the amount of oil which can be extracted from it. For the information of readers interested in the method of analysis, the oil was solvent extracted with Petroleum Ether from a sample of ground seed.

Percentage of Protein—Rape seed meal is a byproduct of the extraction of oil from the seed. This meal is used as a protein supplement in certain livestock feeds. The value of the meal is in direct proportion to its protein content.

Iodine number—Rape seed oil is used by industry for a variety of products. For some of these it is used in the form of an oil which is processed directly. For other uses it must first be chemically treated, (hydrogenated) to convert the oil to a solid fat. The amount of hydrogen required to bring about this conversion varies, depending on the chemical composition

of the oil sample. The iodine number of an oil sample is simply an indicator of the degree of treatment required to convert the oil into a solid fat. An oil sample with a high iodine number requires more processing than does one with a lower iodine number. Thus, for an industrial use which requires an oil the processor would prefer a sample with a high iodine number. Conversely for a use which requires a solid fat, the processor would prefer a sample with a low iodine number.

SUMMARY OF RESULTS BY AREAS

Because of the small number of rape tests conducted in 1958, it was not possible to obtain detailed information from each Cereal Variety Zone. However, a summary has been made by combining the results of those tests located in several zones in which growing conditions are generally similar. In most cases the tests located in each of these areas produced similar results. Some areas of the province are not represented in this report because the tests located in them were destroyed during the growing season by frost, drought, insects or other causes.

The year 1958 was generally not a favorable one for rapeseed, and since only one year's results are available in this report, they should be considered with some caution. Because of the lack of moisture in many areas, the oil content of the seed was rather low, while the protein content was fairly high. In these tests the early varieties Arlo and Polish generally outyielded the later varieties. However, this may have been due to the early maturity of these varieties which enabled them to avoid some of the effects of lack of moisture. Because of these unusual conditions it is difficult to obtain an accurate assessment of the varieties based only on the one year's results.

TABLE No. 64—SOUTHWEST AREA (Cereal Variety Zones 1A, 1B, 1C, 1D)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	543	525	621	866	812
Days from seeding to ripening.....	110	112	110	94	95
Height of plants in inches.....	24.7	23.7	24.0	22.7	22.2
Bushel weight in pounds.....	52	52	53	53	53
Percentage of oil in seed.....	32.8	31.7	32.2	33.0	33.4
Percentage of protein in meal.....	46.4	45.6	46.8	43.1	41.2
Iodine number*.....	98	103	103	106	103

*—See "Interpretation of Results" on page 76.

The two early maturing varieties, **Arlo** and **Polish** outyielded the other varieties by a fairly substantial margin in this area in 1958. They were considerably earlier in maturity and several inches shorter in growth. **Arlo**, **Polish** and **R-5** were equal in bushel weight and were, on the average, a pound heavier than **Golden** and **Regina II**. In this area, where dry conditions prevailed during the summer, all varieties were fairly low in oil content. **Polish** ranked first



Wheat Pool committee men and shareholders at Spruce Home took a keen interest in Bryce Belt's rape test. Some of them are shown at a gathering held at the test.

with an average of 33.4%. It was followed by **Arlo**, **Golden**, **R-5** and **Regina II** in that order. The analysis for protein placed the varieties in quite a different order. The three late maturing varieties, **R-5**, **Golden** and **Regina II** were relatively high in protein with 46.8%, 46.4% and 45.6% respectively. **Arlo** and **Polish** were both lower with 43.1% and 41.2% respectively. The results of the test involving the iodine number indicate that in this area **Arlo** had the highest iodine number. **Polish**, **Regina II** and **R-5** all rated equal with a reading of 103. **Golden** had the lowest iodine number with a reading of 98.

TABLE No. 65—SOUTHEAST AREA (Cereal Variety Zones 2A and 2E)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	223	213	237	484	373
Days from seeding to ripening.....	110	110	109	94	95
Height of plants in inches.....	12.5	14.0	13.0	15.0	17.0
Bushel weight in pounds.....	49	49	49	52	54
Percentage of oil in seed.....	31.9	31.2	30.5	32.4	31.2
Percentage of protein in meal.....	46.5	46.6	46.3	41.8	40.2
Iodine number*.....	101	106	104	106	99

*—See "Interpretation of Results" on page 76.

In this area the early maturing varieties **Arlo** and **Polish** yielded considerably more than the three later varieties. Due to lack of moisture all varieties were rather short, but **Polish** and **Arlo** were slightly taller on an average basis. The samples of **Polish** averaged highest in bushel weight and **Arlo** placed second. The samples of the three remaining varieties were somewhat lighter. The percentage of oil obtained from all samples in this area was quite low, possibly due to the lack of moisture during the growing season. There was less than 2% difference between the variety having the highest oil content (**Arlo**) and that with the lowest (**R-5**). In protein content the three later varieties **Golden**, **Regina II** and **R-5** were quite similar with less than one-half of one per cent difference among them. **Arlo** and **Polish** were considerably lower in protein content with 41.8% and 40.2% respectively. **Arlo** and **Regina II** showed equal iodine numbers in this area where both showed a reading of 106. **R-5** was slightly lower with a reading of 104, followed by **Golden** and **Polish** with 101 and 99 respectively.

TABLE No. 66—CENTRAL AND WEST-CENTRAL AREA (Cereal Variety Zones 2B and 2D)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	524	487	431	695	606
Days from seeding to ripening.....	110	111	110	86	84
Height of plants in inches.....	29.0	31.0	27.3	24.0	23.0
Bushel weight in pounds.....	51	52	51	54	54
Percentage of oil in seed.....	37.1	34.7	34.8	33.6	33.7
Percentage of protein in meal.....	46.5	43.3	45.0	42.6	41.7
Iodine number*.....	102	106	107	106	104

*—See "Interpretation of Results" on page 76.

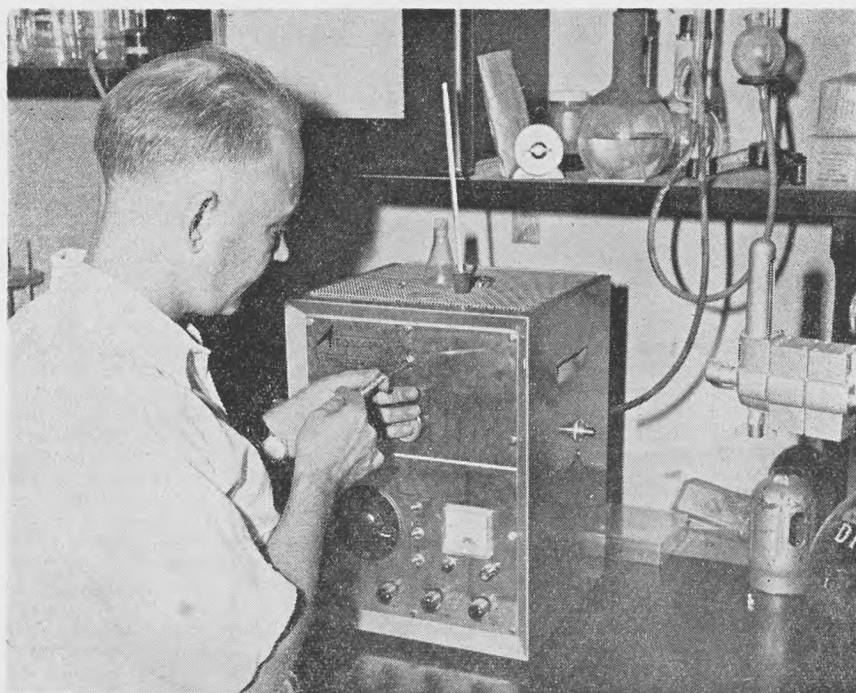
In this area **Arlo** and **Polish** placed first and second respectively in yield. **Golden** placed third, **Regina II** placed fourth and **R-5** placed fifth. **Arlo** and **Polish** were quite similar in time of maturity and they were on the average, more than three weeks earlier than the remaining three varieties. They were also several inches shorter on the average than the later varieties. **Arlo** and **Polish** were equal in bushel weight with an average weight of 54 pounds. **Regina II** was slightly lower with 52 pounds per bushel. **Golden** and **R-5** both weighed 51 pounds per measured bushel. The percentage of oil obtained from this area was considerably higher than that obtained from the areas discussed previously. **Golden** ranked first in this area with an average of 37.1% oil, **R-5** and **Regina II** were quite similar with 34.8% and 34.7% respectively. The two early varieties, **Polish** and **Arlo** yielded less oil than the other varieties, averaging 33.7% and 33.6% respectively. Protein content of the samples in this area was quite high. **Golden**, with an average protein content of 46.5% ranked first in the area. The other varieties placed in the following order: **R-5**, **Regina II**, **Arlo** and **Polish**. **R-5** had the highest iodine number on the average in this area. **Regina II** and **Arlo** both showed readings of 106. **Polish** had an average reading of 104 and **Golden** was lowest with a reading of 102.

TABLE No. 67—EAST CENTRAL AREA (Cereal Variety Zones 3A and 3B)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	273	284	272	451	493
Days from seeding to ripening.....	124	125	123	95	94
Height of plants in inches.....	24	24	23	22	22
Bushel weight in pounds.....	51	51	51	52	53
Percentage of oil in seed.....	35.8	36.3	34.8	31.5	30.6
Percentage of protein in meal.....	49.1	45.9	46.2	42.3	40.4
Iodine number*	102	105	107	106	102

*—See "Interpretation of Results" on page 76.

Polish and **Arlo** outyielded the three late maturing varieties by a substantial margin in this area in 1958. On an average basis there was little difference in the yields of the other three varieties. In time of maturity the varieties differed widely, with **Arlo** and **Polish** maturing quite early and the remaining three varieties averaging about four weeks later. There was no significant difference in height of the five varieties in this area. **Polish** outweighed the other varieties in this area with an average bushel weight of 53 pounds. **Arlo** was slightly lower with an average weight of 52 pounds. The remaining three varieties were equal with an average bushel weight of 51 pounds each. **Regina II** contained the highest percentage of oil of the five varieties in this area. The average oil content of this variety was 36.3%. **Golden** was only slightly lower with 35.8%, and **R-5** placed third with 34.8%. The two early maturing varieties **Arlo** and **Polish** yielded considerably less oil, testing 31.5% and 30.6% respectively. **Golden**, with a protein content of 49.1% exceeded the other varieties by a considerable margin. **R-5** placed second with 46.2% protein, and **Regina II** placed third with 45.9%. The varieties **Arlo** and **Polish** were notably lower in protein content with 42.3% and 40.4% respectively. **R-5** showed the highest iodine number, on the average, in this area. **Arlo** placed second and **Regina II** placed third on an average basis. **Golden** and **Polish** were lower than the other three varieties and both gave an average reading of 102.



This laboratory equipment is used in the analysis of rapeseed and linseed oils.

TABLE No. 68—NORTHEAST AREA (Cereal Variety Zones 3D and 3F)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	1259	1178	1211	1280	1128
Days from seeding to ripening.....	118	121	117	95	95
Height of plants in inches.....	31	31	33	28	26
Bushel weight in pounds.....	50	51	51	53	53
Percentage of oil in seed.....	44.1	42.6	42.1	38.0	39.3
Percentage of protein in meal.....	40.7	37.9	39.7	37.3	36.7
Iodine number*.....	101	103	103	106	104

*—See "Interpretation of Results" on page 76.

Arlo, **Golden** and **R-5** placed first, second and third respectively in yield in this area but it should be noted that there were only slight differences among them. **Regina II** and **Polish** placed fourth and fifth respectively and both were somewhat lower in yield than the three preceding varieties. As in the areas discussed previously, there was a considerable difference in time of maturity between the early varieties **Arlo** and **Polish** and the later varieties **Golden**, **Regina II** and **R-5**. In this area the difference was approximately three weeks. The early varieties were somewhat shorter in height. The average bushel weights in this area show that **Arlo** and **Polish** were equal, **Regina II** and **R-5** were also equal and slightly lower in weight, while **Golden** ranked fifth of the five varieties. All the varieties in this area produced a high oil content. **Golden** ranked first with 44.1%, **Regina II** placed second with 42.6% and **R-5** placed third with 42.1%. **Polish** and **Arlo** produced somewhat less oil, yielding 39.3% and 38.0% respectively. The protein content of all the varieties in this area was lower than in the areas discussed previously. **Golden**, with an average of 40.7% placed first in this area. **R-5** placed second with an average of 39.7%. **Regina II**, **Arlo** and **Polish** placed third, fourth and fifth respectively. The analysis for iodine number showed that **Arlo** had the highest number with an average of 106. It was followed by **Polish** with a reading of 104. **Regina II** and **R-5** gave equal readings of 103, and **Golden** placed fifth with a reading of 101.

TABLE No. 69—NORTH CENTRAL AREA (Cereal Variety Zones 3G and 3J)

	Golden	Regina II	R-5	Arlo	Polish
Yield in pounds per acre.....	1538	1457	1380	1548	1495
Days from seeding to ripening.....	116	116	116	102	100
Height of plants in inches.....	30	31	28	23	23
Bushel weight in pounds.....	51	52	51	53	53
Percentage of oil in seed.....	37.7	41.1	39.9	35.4	33.5
Percentage of protein in meal.....	44.9	43.4	41.0	41.0	39.8
Iodine number*.....	101	104	106	106	103

*—See "Interpretation of Results" on page 76.

As might be expected, the average yields in this area were considerably higher than those in other areas of the province. All varieties yielded well and there were no great differences in yield among the varieties. As in the other zones the two early maturing varieties were quite similar in time of maturity. They were about two weeks earlier than the three remaining varieties. **Arlo** and **Polish** were noticeably shorter in height than the other three varieties. The average bushel weights of **Arlo** and **Polish** were equal in this area. **Regina II** was slightly lighter with an average of 52 pounds. **Golden** and **R-5** each showed an average weight of 51 pounds. On an average basis, **Regina II** showed the highest oil content in this area. **R-5**, with 39.9% oil placed second, **Golden** placed third in this area with 37.7% while **Arlo** and **Polish** placed fourth and fifth with 35.4% and 33.5% respectively. The average protein content of all varieties in this area was somewhat lower than that in most other areas in the province. **Golden** contained the highest percentage on an average basis, with a reading of 44.9%. **Regina II** placed second with an average protein content of 43.4%. **R-5** and **Arlo** rated equal on an average basis with a protein content of 41%. **Polish** ranked fifth with 39.8% protein. The calculation of iodine number shows that **R-5** and **Arlo** each had a reading of 106. **Regina II** showed a reading of 104, while **Polish** and **Golden** showed readings of 103 and 101 respectively.

GRAPHS SHOWING RAPE YIELDS

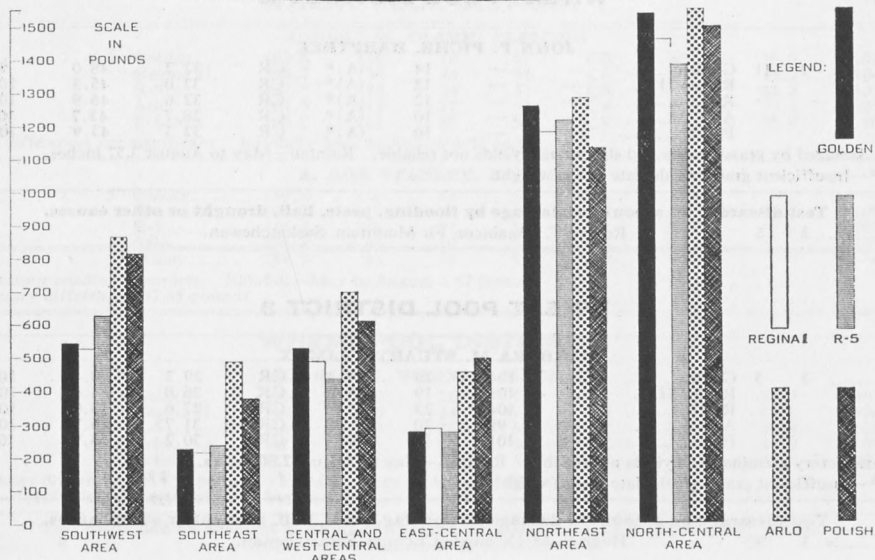
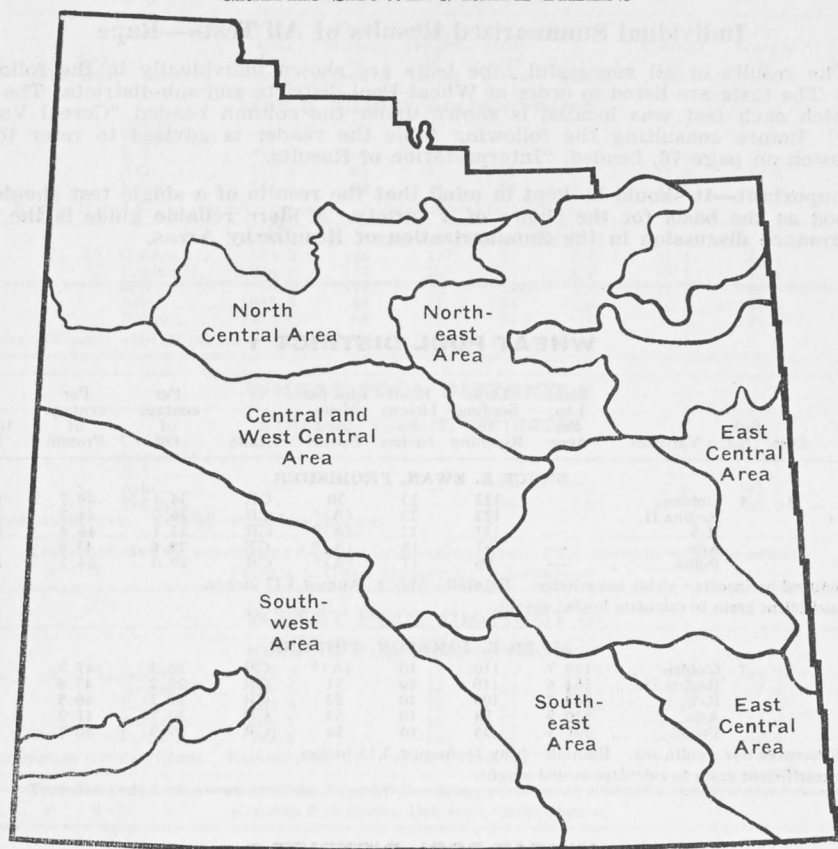


Table No. 70

Individual Summarized Results of All Tests—Rape

The results of all successful rape tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 76, headed, "Interpretation of Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization of Results by Areas.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Sub. Dist.	Varieties	Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Meas- ured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.	
BRUCE E. EWAN, FROBISHER											
3A.....	1	4	Golden.....	—	122	23	50	CR	34.1	49.7	104
			Regina II.....	—	122	23	(A)*	CR	36.2	44.7	104
			R-5.....	—	121	22	(A)*	CR	33.1	46.4	107
			Arlo.....	—	97	15	(A)*	CR	29.6	43.8	103
			Polish.....	—	96	17	(A)*	CR	29.0	44.2	106

Test damaged by insects—yields not reliable. Rainfall—May to August 3.17 inches.

(A)*Insufficient grain to calculate bushel weight.

ALLEN E. JOHNSON, TRIBUNE											
2A.....	1	7	Golden.....	129.7	110	10	(A)*	CR	28.3	47.7	100
			Regina II.....	164.6	110	10	51	CR	28.2	45.8	106
			R-5.....	208.2	109	10	52	CR	29.2	46.5	102
			Arlo.....	530.9	94	10	54	CR	30.7	41.2	106
			Polish.....	391.3	95	10	54	CR	29.9	40.7	99

Yield differences not significant. Rainfall—May to August 3.18 inches.

(A)*—Insufficient grain to calculate bushel weight.

WHEAT POOL DISTRICT 2

JOHN P. PICHE, HARPTREE											
1A.....	2	11	Golden.....	—	—	14	(A)*	CR	32.2	48.0	95
			Regina II.....	—	—	12	(A)*	CR	32.0	45.3	100
			R-5.....	—	—	12	(A)*	CR	32.6	46.9	103
			Arlo.....	—	—	10	(A)*	CR	28.7	43.7	108
			Polish.....	—	—	10	(A)*	CR	32.3	43.9	106

Test damaged by grasshoppers and shattering—yields not reliable. Rainfall—May to August 3.57 inches.

(A)*—Insufficient grain to calculate bushel weight.

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

1C.....	2	6	Roman T. Okraince, Fir Mountain, Saskatchewan.								
---------	---	---	--	--	--	--	--	--	--	--	--

WHEAT POOL DISTRICT 3

BARBARA M. STUART, CLIMAX											
1C.....	3	3	Golden.....	—	104	20	(A)*	CR	29.2	48.4	100
			Regina II.....	—	105	19	(A)*	CR	26.0	44.6	107
			R-5.....	—	104	23	(A)*	CR	27.6	48.0	105
			Arlo.....	—	99	20	53	CR	31.7	46.7	106
			Polish.....	—	101	19	53	CR	30.2	43.9	106

Unsatisfactory germination—yields not reliable. Rainfall—May to August 2.80 inches.

(A)*—Insufficient grain to calculate bushel weight.

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

1C.....	3	9	Hugh E. McDonough, Crichton, Saskatchewan.								
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WHEAT POOL DISTRICT 4

Cereal Variety Zone	Sub. Dist.	Varieties	Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Measured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.
JACK G. THARES, GOLDEN PRAIRIE										
1B.....	4	2	Golden.....	—	—	—	—	—	—	—
			Regina II.....	—	—	—	—	—	—	—
			R-5.....	—	—	—	—	—	—	—
			Arlo.....	517.5	85	33	CR	31.6	42.3	106
			Polish.....	554.2	84	34	CR	33.6	43.8	103

Golden, Regina II and R-5 destroyed by insects. Rainfall record incomplete.

MILTON D. BRAATEN, SHACKLETON										
1B.....	4	10	Golden.....	654.2	114	21	53 CR	31.5	43.1	100
			Regina II.....	724.0	114	20	52 CR	32.1	46.6	102
			R-5.....	783.9	114	20	53 CR	32.7	47.5	101
			Arlo.....	1065.9	89	21	54 CR	34.2	43.4	106
			Polish.....	1014.7	89	20	54 CR	31.9	39.9	101

Necessary difference—161.37 pounds. Rainfall—May to August 5.34 inches.

WHEAT POOL DISTRICT 5

ETHEL M. TALBOT, ETTINGTON										
1A.....	5	1	Golden.....	—	—	—	—	—	—	—
			Regina II.....	—	—	—	—	—	—	—
			R-5.....	—	—	—	—	—	—	—
			Arlo.....	—	—	54	CR	31.6	43.0	105
			Polish.....	—	—	56	CR	29.6	39.9	106

Yields not satisfactory. Rainfall—record incomplete.

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

1A.....	5	5	Patricia A. Gross, Hodgeville, Saskatchewan.							
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WHEAT POOL DISTRICT 6

KENNETH F. McKENZIE, BELBECK										
2E.....	6	5	Golden.....	315.8	—	15	49 2 CR	35.4	45.3	102
			Regina II.....	260.5	—	18	49 2 CR	34.1	47.3	106
			R-5.....	264.6	—	16	49 2 CR	31.8	46.0	106
			Arlo.....	436.1	—	20	52 CR	34.1	42.4	105
			Polish.....	353.6	—	24	54 CR	32.4	39.6	99

Yield differences not significant. Rainfall—May to August 5.33 inches.

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

3C.....	6	9	Kenneth F. Gibbens, Balcarres, Saskatchewan.							
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WHEAT POOL DISTRICT 7

ROBERT W. CLARK, FLEMING										
3B.....	7	2	Golden.....	482.6	135	24	51 CR	40.5	46.6	101
			Regina II.....	536.7	138	24	51 CR	40.5	43.2	104
			R-5.....	487.3	133	24	51 CR	39.4	42.3	105
			Arlo.....	581.5	113	27	53 CR	35.0	39.2	105
			Polish.....	700.7	113	27	53 CR	34.5	35.8	98

Yield differences not significant. Rainfall—May to August 6.07 inches.

A. ROY STANLEY, BARING

3A.....	7	6	Golden.....	159.9	119	22	50 CR	—	—	—
			Regina II.....	196.5	119	23	50 CR	35.1	46.7	109
			R-5.....	115.1	119	21	51 CR	33.0	48.6	108
			Arlo.....	238.4	83	19	51 CR	30.8	43.7	103
			Polish.....	254.7	83	18	52 CR	—	—	—

Laboratory results incomplete. Rainfall—May to August 4.67 inches.

Necessary difference—57.45 pounds.

WHEAT POOL DISTRICT 8

MURRAY W. WAGNER, MACNUTT										
3B.....	8	1	Golden.....	176.2	120	26	51 CR	32.7	51.3	101
			Regina II.....	118.0	120	24	(A)* CR	32.2	49.8	106
			R-5.....	214.0	120	26	52 CR	31.8	49.8	108
			Arlo.....	532.1	85	28	54 CR	30.0	44.0	109
			Polish.....	523.4	85	27	54 CR	28.4	41.3	103

Necessary difference—124.21 pounds. Rainfall—May to August 6.35 inches.

(A)*—Insufficient grain to calculate bushel weight.

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

3F.....	8	11	George Fedak, Hudson Bay, Saskatchewan.							
---------	---	----	---	--	--	--	--	--	--	--

WHEAT POOL DISTRICT 9

Cereal Variety Zone	Sub. Dist.	Varieties	Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Measured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.
BRIAN A. MCKENZIE, STRASBOURG										
2B.....	9	4 Golden.....	844.9	109	36	51	CR	33.0	49.4	104
		Regina II.....	815.8	109	35	52	CR	33.3	47.7	107
		R-5.....	693.7	109	35	50	CR	31.2	48.1	106
		Arlo.....	796.7	77	32	55	CR	—	—	—
		Polish.....	626.9	77	27	55	CR	28.8	40.9	100
Yield differences not significant.			Rainfall—May to August 5.68 inches.					Laboratory results incomplete.		

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

3C..... 9 9 Walter Luciuk, Wishart, Saskatchewan.

WHEAT POOL DISTRICT 10

WILLIAM L. COUTTS, TUGASKE											
2B.....	10	2	Golden.....	458.2	—	—	51	CR	36.9	44.3	103
			Regina II.....	528.0	—	—	52	CR	36.1	42.5	106
			R-5.....	371.0	—	—	51	CR	36.1	43.7	108
			Arlo.....	879.8	—	—	53	CR	35.0	42.4	104
			Polish.....	763.5	—	—	54	CR	34.6	41.9	104
Necessary difference—124.85 pounds. Rainfall—May to August 3.18 inches.											

GAYLE G. PODOLESKI, KENASTON											
2B.....	10	9	Golden.....	—	112	25	52	CR	37.8	49.1	97
			Regina II.....	—	111	29	53	CR	33.1	45.9	104
			R-5.....	—	111	24	53	CR	33.2	46.1	101
			Arlo.....	—	101	19	54	CR	32.7	43.3	107
			Polish.....	—	100	21	53	CR	33.7	43.2	108

WHEAT POOL DISTRICT 11

KEVIN G. GALVIN, FORGAN											
1D.....	11	2	Golden.....	432.1	111	30	52	CR	35.0	46.4	100
			Regina II.....	325.6	116	28	52	CR	32.3	46.1	106
			R-5.....	456.5	111	27	52	CR	32.1	45.2	106
			Arlo.....	664.7	95	25	53	CR	34.6	41.5	105
			Polish.....	607.7	94	22	53	CR	36.5	40.0	102
Necessary difference—115.49 pounds. Rainfall—May to August 2.69 inches.											

LAWRENCE R. WHITE, FLAXCOMBE											
1D.....	11	5	Golden.....	—	—	30	52	CR	36.1	45.9	97
			Regina II.....	—	—	31	52	CR	36.1	45.4	100
			R-5.....	—	—	29	53	CR	35.9	46.6	100
			Arlo.....	1418.9	—	27	53	CR	35.6	40.1	106
			Polish.....	1613.7	—	28	53	CR	36.3	38.3	100

WHEAT POOL DISTRICT 12

CLARK WIRACHOWSKY, TRAYNOR											
2D.....	12	2	Golden.....	270.4	110	26	50	CR	36.6	46.1	107
			Regina II.....	116.3	112	29	(A)*	CR	35.0	41.6	107
			R-5.....	228.5	111	23	51	CR	35.1	45.2	112
			Arlo.....	408.8	79	21	53	CR	33.2	42.2	108
			Polish.....	426.2	76	21	53	CR	32.8	40.1	100

(A)*—Insufficient grain to calculate bushel weight.

LORNE SCHMITZ, TAKO											
2D.....	12	5	Golden.....	—	—	—	—	—	—	—	—
			Regina II.....	—	—	—	—	—	—	—	—
			R-5.....	—	—	—	—	—	—	—	—
			Arlo.....	80.2	83	16	(A)*	CR	29.3	43.5	109
			Polish.....	84.3	83	15	(A)*	CR	27.9	40.3	106

Golden, Regina II and R-5 destroyed by insects. Rainfall—May to August 2.27 inches.

(A)*—Insufficient grain to calculate bushel weight.

WHEAT POOL DISTRICT 13

VICTOR V. FARNELL, SONNINGDALE											
3G.....	13	7	Golden.....	—	116	33	53	CR	36.6	46.6	99
			Regina II.....	—	116	35	53	CR	39.8	46.0	107
			R-5.....	—	116	30	51	CR	37.5	45.2	106
			Arlo.....	—	110	23	54	CR	34.0	41.7	106
			Polish.....	—	106	23	53	CR	33.8	42.8	105

Wheat Pool District 13—Continued

Cereal Variety Zone	Sub. Dist.	Varieties	Yield Lbs. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Lbs. per Measured Bushel	Grade	Per centage of Oil	Per centage of Protein	Iodine No.	
WAYNE I. O. STEFFEN, MUENSTER											
3D.....	13	11	Golden.....	1336.3	120	27	51	CR	42.4	44.7	102
			Regina II.....	1208.4	125	27	51	CR	39.6	43.0	104
			R-5.....	1237.4	125	28	52	CR	39.4	44.2	104
			Arlo.....	1126.9	95	29	53	CR	36.6	40.8	106
			Polish.....	882.7	95	25	53	CR	35.6	41.1	104
Yield differences not significant. Rainfall—May to August 4.48 inches.											

WHEAT POOL DISTRICT 14

JACK A. HANKINS, VALPARAISO											
3F.....	14	7	Golden.....	1950.9	117	37	50	CR	44.7	40.6	101
			Regina II.....	1802.7	117	38	51	CR	45.0	36.1	100
			R-5.....	1850.9	117	39	51	CR	43.1	39.3	103
			Arlo.....	1978.8	96	22	53	CR	38.0	38.2	106
			Polish.....	1760.8	96	21	53	CR	40.5	35.7	104
Yield differences not significant. Rainfall—May to August 7.15 inches.											
ROBERT A. PERKINS, CODETTE											
3F.....	14	11	Golden.....	491.4	117	30	49	2 CR	45.2	36.9	100
			Regina II.....	522.2	122	29	50	CR	43.2	34.7	104
			R-5.....	545.4	111	33	50	CR	44.0	35.5	103
			Arlo.....	734.4	94	32	52	CR	39.5	32.8	107
			Polish.....	738.5	94	32	52	CR	41.7	33.4	105
Necessary difference—140.1 pounds. Rainfall—May to August 6.02 inches.											

WHEAT POOL DISTRICT 15

O. BRYCE BELT, SPRUCE HOME											
3J.....	15	9	Golden.....	828.6	115	26	49	2 CR	42.0	36.6	100
			Regina II.....	753.0	115	26	50	CR	43.5	45.2	109
			R-5.....	801.3	115	26	50	CR	—	—	—
			Arlo.....	1218.2	93	22	52	CR	38.7	34.5	107
			Polish.....	1090.3	93	22	52	CR	40.9	35.5	103
Necessary difference—221.73 pounds. Rainfall record incomplete.											
Laboratory results incomplete.											

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

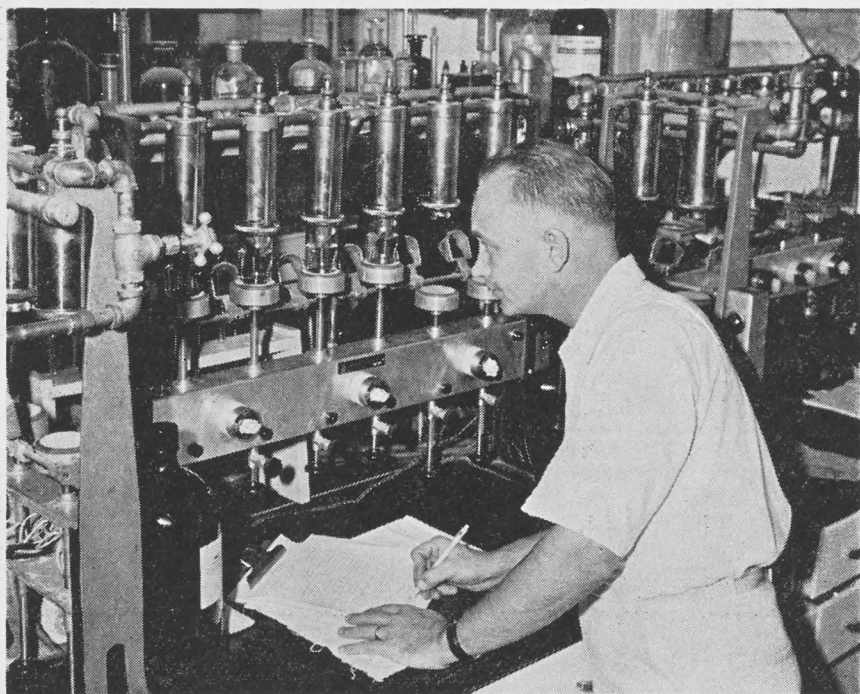
3G..... 15 4 Mervin Dyck, Rosthern, Saskatchewan.

WHEAT POOL DISTRICT 16

AIME HAMEL, PRINCE											
3G.....	16	4	Golden.....	2246.3	—	—	52	CR	38.8	42.2	103
			Regina II.....	2160.3	—	—	52	CR	42.4	40.7	100
			R-5.....	1958.5	—	—	51	CR	42.4	36.7	106
			Arlo.....	1878.2	—	—	53	CR	36.8	40.3	106
			Polish.....	1900.3	—	—	53	CR	33.1	36.9	100
Yield differences not significant. Rainfall record incomplete.											

Test discarded on account of damage by flooding, pests, hail, drought or other causes.

3G..... 16 2 Donald Callfas, Speers, Saskatchewan.



This laboratory equipment is used to determine the oil content of oil bearing seeds.

CONCLUSIONS

In spite of a very limited supply of rainfall in most parts of the province during 1958, the yields of crops in general, and of these tests as well, were quite surprising. There was a fair reserve of moisture in the spring and weather in the early part of the season produced sturdy, deep-rooted plants. The temperature during the critical period of July was cooler than normal and this also helped to minimize the effects of lack of rainfall. Heavy, general rains, received in mid-July over most of the province, were of considerable assistance, and conditions steadily improved from that time. Crop yields for the province were nearly equal to the long term average.

No promising new bread wheat varieties have been developed for several years so for the 1958 wheat tests it was necessary to include varieties which had been tested for a number of years previously. For the same reason, it was necessary to include the two durum varieties, Ramsey and Stewart, in a number of northern cereal variety zones in which they would not normally be grown because of their late maturity. In the 1958 tests Thatcher produced outstanding results throughout the province. This variety has a long standing record of good performance and can be highly recommended except in those areas where rust is a potential hazard. Selkirk proved to be somewhat lower in yield than Thatcher under the dry conditions experienced in this year; Chinook yielded well in several zones in the southwest part of the province where it is particularly useful for sawfly control. However, outside this area it does not compete with Thatcher in yield. Lake appears well adapted to the west central part of the province and also to some of the northern and north-eastern zones, where it yielded well in spite of its rather late maturity. In the southern part of the province Ramsey and Stewart were only slightly lower in yield than the bread wheats. However, in the northern portion they were quite consistently outyielded.

The oat tests in 1958 were confined to certain areas in the eastern and northern parts of the province where considerable quantities of oats are normally grown. In this year under rust free conditions, Exeter yielded well throughout the area in which oat tests were conducted. Rodney and Garry were somewhat lower in yield but for quite a number of these zones this is more than offset by the greater rust resistance of these two varieties. Fundy, which was included in these tests for the first time, showed promise in only a few scattered zones. Clintland proved to be the lowest yielding variety in every zone in which it was tested in 1958.

Vantage barley produced outstanding results under dry conditions in the area in which it was tested in 1958. This area included the west, south-west and west-central portion of the province. Husky placed second to Vantage in most of this area but it was the highest yielding variety in many of the zones in the eastern and northern part of Saskatchewan. Under the growing conditions which existed in 1958, Montcalm generally outyielded Parkland. The only exceptions to this were in Zones 1C and 3A. Trail appeared to be better adapted to conditions in the eastern and northern areas than to the western part of the province. York, on the basis of only one year's tests appears to have only a limited adaptation in the area along the Manitoba border.

Rape tests were included in this project on a small scale for the first time in 1958. Because of the unusual nature of the year the results of these tests should be interpreted with some care. Arlo and Polish outyielded the other three varieties tested (Golden, Regina II and R-5) quite consistently throughout the province. This may have been due to the fact that the earliness of these varieties enabled them to escape some effects of lack of moisture. It is possible that if certain new markets for rapeseed are developed in the future, it will be important to grow a particular type of rapeseed for a particular use. With this in mind certain laboratory tests were conducted on the samples in an attempt to interpret the effects of variety and environment on some of the characteristics of the seed. Present plans are to carry on this type of analysis for one or two more years.

It is hoped that these tests, in addition to providing yield information from all parts of the province, have stimulated the interest of the young people who supervised them, and have been of interest to producers in the communities where the tests were located.

ACKNOWLEDGMENTS

The Saskatchewan Wheat Pool wishes to acknowledge the assistance given by a number of agencies and individuals who contributed to the success of this testing project. Valuable advice and assistance in planning the project was provided by Drs. W. J. White, E. N. Larter and D. R. Knott of the Field Husbandry Department, University of Saskatchewan.

Various types of assistance were received from the following:

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- The Experimental Farm, Indian Head, Saskatchewan.
- The Experimental Farm, Melfort, Saskatchewan.
- The Experimental Farm, Scott, Saskatchewan.
- The Experimental Farm, Swift Current, Saskatchewan.
- The Experimental Farm, Regina, Saskatchewan.
- The Field Husbandry Department, Ontario Agricultural College, Guelph, Ontario.
- The Forage Crops Division, Canada Department of Agriculture, Saskatoon, Saskatchewan.
- Mr. H. R. McKim, Dresden, Ontario.

In addition the Wheat Pool gratefully acknowledges the contribution of more than three hundred variety test supervisors who conducted these tests on a voluntary basis and whose interest and enthusiasm helped to make the project a success.

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